

Sec. 1: Main Section

- Specifications
- Preparation for Servicing
- Adjustment Procedures
- Schematic Diagrams
- CBA's

Sec. 2: Deck Mechanism Section

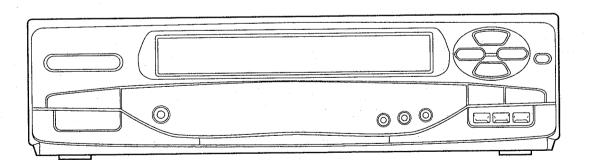
- Standard Maintenance
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- Exploded views
- Parts List

VIDEO CASSETTE RECORDER

13A-109 / 13A-129 / 13A-509 / 13A-529





MAIN SECTION

VIDEO CASSETTE RECORDER

13A-109 / 13A-129 / 13A-509 / 13A-529

Sec. 1: Main Section

- Specifications
- Preparation for Servicing
- Adjustment Procedures
- Schematic Diagrams
- CBA's

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SPECIFICATIONS

Description	Unit	Minimum	Nominal	Maximum	Mode	Remark
1. Video						
1-1. Video Output (PB)	Vp-p	0.8	1.0	1.2	SP	FL6A
1-2. Video Output (R/P)	Vp-p	0.8	1.0	1.2	SP	
1-3. Video S/N Y (R/P) INPUT:50% WHITE	dB	40	45		SP	HPF:1KHz LPF:5MHz SC TRAP ON
1-4. Video Color S/N AM (R/P) INPUT:100% WHITE	dB	35	41		SP	HPF:1KHz LPF:500KHz SC TRAP ON
1-5. Video Color S/N PM (R/P) INPUT:100% WHITE	dB	30	36		SP	HPF:1KHz LPF:500KHz SC TRAP ON
1-6. Resolution (PB)	Line	230	240		SP	FL6M
2. Servo					-	
2-1. Jitter Low (PB)	μsec		0.07	0.12	SP	FL6N
2-2. Wow & Flutter(R/P)	%		0.3	0.6	SP	E-30, CCIR, WTD
3. Normal Audio						
3-1. Output (PB)	dBV	-10	-6	-2	SP	FL6A
3-2. Output (R/P)	dBV	-10	-6	-1.5	SP	
3-3. S/N (R/P)	dB	36	40		SP	
3-4. Distortion (R/P)	%		1.5	4.0	SP	INPUT:-10dBV
3-5. Freq. resp (R/P) at 200Hz (-20dB ref. 1kHz) at 6kHz	dB	-6	-3		SP	

Note: Nominal specs represent the design specs. All units should be able to approximate these – some will exceed and some may drop slightly below these specs. Limit specs represent the absolute worst condition that still might be considered acceptable; In no case should a unit fail to meet limit specs.

1-1-1

H6102SP

IMPORTANT SAFETY PRECAUTIONS

Product Safety Notice

Some electrical and mechanical parts have special safety-related characteristics which are often not evident from visual inspection, nor can the protection they give necessarily be obtained by replacing them with components rated for higher voltage, wattage, etc. Parts that have special safety characteristics are identified by a 🗥 on schematics and in parts lists. Use of a substitute replacement that does not have the same safety characteristics as the recommended replacement part might create shock, fire, and/or other hazards. The Product's Safety is under review continuously and new instructions are issued whenever appropriate. Prior to shipment from the factory, our products are carefully inspected to confirm with the recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

Precautions during Servicing

- **B.** In addition to safety, other parts and assemblies are specified for conformance with regulations applying to spurious radiation. These must also be replaced only with specified replacements.
 - Examples: RF converters, RF cables, noise blocking capacitors, and noise blocking filters, etc.
- C. Use specified internal wiring. Note especially:
- 1) Wires covered with PVC tubing
- 2) Double insulated wires
- 3) High voltage leads
- D. Use specified insulating materials for hazardous live parts. Note especially:
 - 1) Insulation tape
 - 2) PVC tubing
 - 3) Spacers
 - 4) Insulators for transistors
- **E.**When replacing AC primary side components (transformers, power cord, etc.), wrap ends of wires securely about the terminals before soldering.
- **F.** Observe that the wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.).
- **G.**Check that replaced wires do not contact sharp edges or pointed parts.
- **H.** When a power cord has been replaced, check that 5 6 kg of force in any direction will not loosen it.

- I. Also check areas surrounding repaired locations.
- **J.** Use care that foreign objects (screws, solder droplets, etc.) do not remain inside the set.
- K. Crimp type wire connector

The power transformer uses crimp type connectors which connect the power cord and the primary side of the transformer. When replacing the transformer, follow these steps carefully and precisely to prevent shock hazards.

Replacement procedure

1) Remove the old connector by cutting the wires at a point close to the connector.

Important: Do not re-use a connector. (Discard it.)

- 2) Strip about 15 mm of the insulation from the ends of the wires. If the wires are stranded, twist the strands to avoid frayed conductors.
- 3) Align the lengths of the wires to be connected. Insert the wires fully into the connector.
- 4) Use a crimping tool to crimp the metal sleeve at its center. Be sure to crimp fully to the complete closure of the tool.
- L. When connecting or disconnecting the internal connectors, first, disconnect the AC plug from the AC outlet.

Safety Check after Servicing

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts, and wires have been returned to their original positions. Afterwards, do the following tests and confirm the specified values to verify compliance with safety standards.

1. Clearance Distance

When replacing primary circuit components, confirm specified clearance distance (d) and (d') between soldered terminals, and between terminals and surrounding metallic parts. (See Fig. 1)

Table 1: Ratings for selected area

AC Line Voltage	Clearance Distance (d) (d')
230 V	≥ 3mm(d) ≥ 6 mm(d')

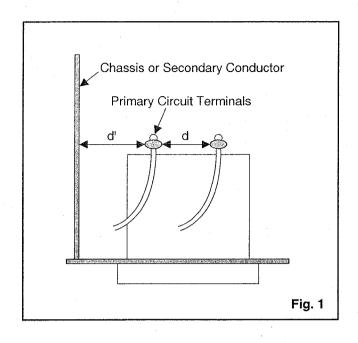
Note: This table is unofficial and for reference only. Be sure to confirm the precise values.

2. Leakage Current Test

Confirm the specified (or lower) leakage current between B (earth ground, power cord plug prongs) and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.) is lower than or equal to the specified value in the table below.

Measuring Method (Power ON):

Insert load Z between B (earth ground, power cord plug prongs) and exposed accessible parts. Use an AC voltmeter to measure across the terminals of load Z. See Fig. 2 and the following table.



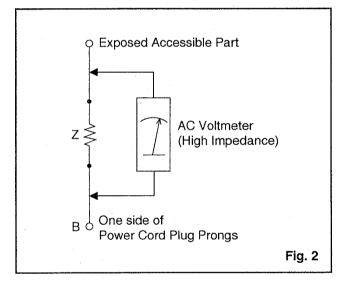


Table 2: Leakage current ratings for selected areas

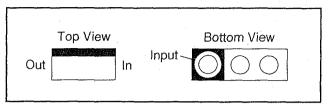
AC Line Voltage	Load Z	Leakage Current (i)	One side of power cord plug prongs (B) to:
220.1/	2kΩ RES. Connected in parallel	i≤0.7mA AC Peak i≤2mA DC	RF or Antenna terminals
230 V	230 V 50kΩ RES. Connected in parallel		A/V Input, Output

Note: This table is unofficial and for reference only. Be sure to confirm the precise values.

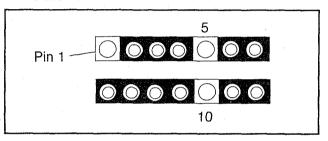
STANDARD NOTES FOR SERVICING

Circuit Board Indications

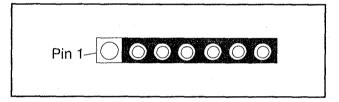
 a. The output pin of the 3 pin Regulator ICs is indicated as shown.



b. For other ICs, pin 1 and every fifth pin are indicated as shown.

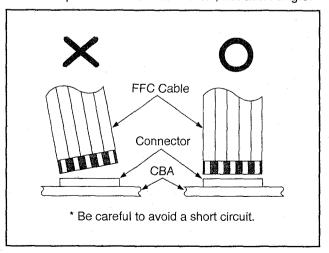


c. The 1st pin of every male connector is indicated as shown.



Instructions for Connectors

- 1. When you connect or disconnect the FFC (Flexible Foil Connector) cable, be sure to first disconnect the AC cord.
- 2. FFC (Flexible Foil Connector) cable should be inserted parallel into the connector, not at an angle.

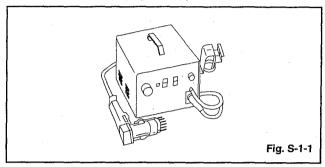


How to Remove / Install Flat Pack-IC

1. Removal

With Hot-Air Flat Pack-IC Desoldering Machine:

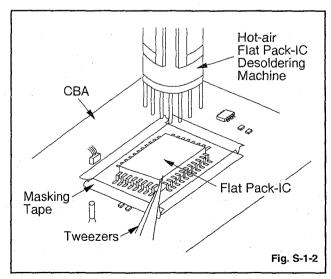
(1) Prepare the hot-air flat pack-IC desoldering machine, then apply hot air to the Flat Pack-IC (about 5 to 6 seconds). (Fig. S-1-1)



- (2) Remove the flat pack-IC with tweezers while applying the hot air.
- (3) Bottom of the flat pack-IC is fixed with glue to the CBA, when removing entire flat pack-IC. First apply soldering iron to center of the flat pack-IC and Heat up. Then Remove (glue will be melted). (Fig. S-1-6)
- (4) Release the flat pack-IC from the CBA using Tweezers. (Fig. S-1-6)

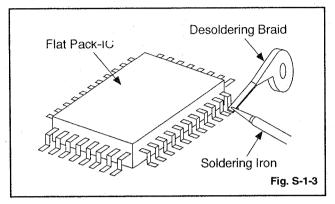
Caution:

- Do not supply hot air to the chip parts around the flat pack-IC for over 6 seconds because damage to the chip parts may occur. Put masking tape around the flat pack-IC to protect other parts from damage. (Fig. S-1-2)
- The flat pack-IC on the CBA is affixed with glue, so be careful not to break or damage the foil of each pin or the solder- lands under the IC when removing it.

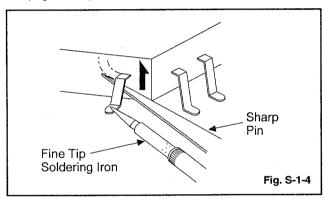


With Soldering Iron:

(1) Using desoldering braid, remove the solder from all pins of the flat pack-IC. When you use solder flux which is applied to all pins of the flat pack-IC, you can remove it easily. (Fig. S-1-3)



(2) Lift each lead of the flat pack-IC upward one by one, using a sharp pin or wire to which solder will not adhere (iron wire). When heating the pins, use a fine tip soldering iron or a hot air desoldering machine. (Fig. S-1-4)



- (3) Bottom of the flat pack-IC is fixed with glue to the CBA, when removing entire flat pack-IC. First apply soldering iron to center of the flat pack-IC and Heat up. Then Remove (glue will be melted). (Fig. S-1-8)
- (4) Release the flat pack-IC from the CBA using Tweezers. (Fig. S-1-6)

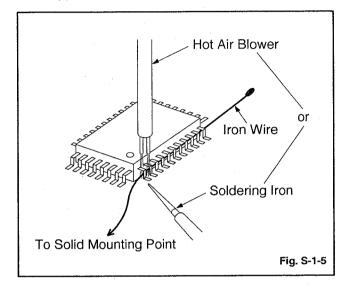
With Iron Wire:

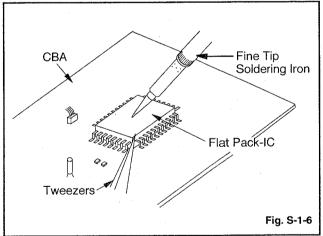
- (1) Using desoldering braid, remove the solder from all pins of the flat pack-IC. When you use solder flux which is applied to all pins of the flat pack-IC, you can remove it easily. (Fig. S-1-3)
- (2) Affix the wire to a workbench or solid mounting point, as shown in Fig. S-1-5.
- (3) While heating the pins using a fine tip soldering iron or hot air blower, pull up the wire as the solder melts so as to lift the IC leads from the CBA contact pads as shown in Fig.S-1-5.
- (4) Bottom of the flat pack-IC is fixed with glue to the CBA, when removing entire flat pack-IC. First apply

- soldering iron to center of the flat pack-IC and Heat up. Then Remove (glue will be melted). (Fig. S-1-6)
- (5) Release the flat pack-IC from the CBA using Tweezers. (Fig. S-1-6)

Note:

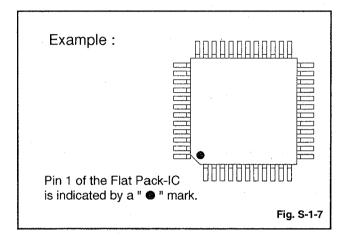
When using a soldering iron, care must be taken to ensure that the flat pack-IC is not being held by glue. When the flat pack-IC is removed from the CBA, handle it gently because it may be damaged if force is applied.

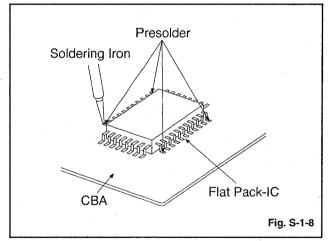




2. Installation

- (1) Using desoldering braid, remove the solder from the foil of each pin of the flat pack-IC on the CBA so you can install a replacement flat pack-IC more easily.
- (2) The " " mark on the flat pack-IC indicates pin 1. (See Fig. S-1-7.) Be sure this mark matches the 1 on the PCB when positioning for installation. Then pre-solder the four corners of the flat pack-IC. (See Fig. S-1-8.)
- (3) Solder all pins of the flat pack-IC. Be sure that none of the pins have solder bridges.





Instructions for Handling Semiconductors

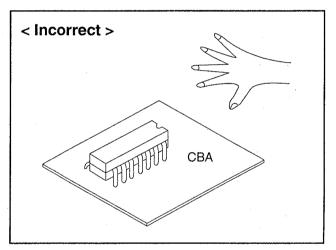
Electrostatic breakdown of the semiconductors may occur due to a potential difference caused by electrostatic charge during unpacking or repair work.

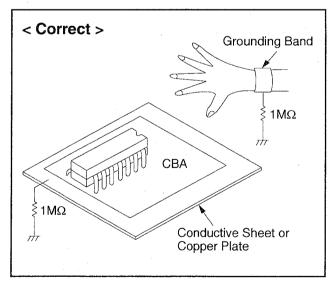
1. Ground for Human Body

Be sure to wear a grounding band $(1M\Omega)$ that is properly grounded to remove any static electricity that may be charged on the body.

2. Ground for Workbench

Be sure to place a conductive sheet or copper plate with proper grounding $(1M\Omega)$ on the workbench or other surface, where the semiconductors are to be placed. Because the static electricity charge on clothing will not escape through the body grounding band, be careful to avoid contacting semiconductors with your clothing.





1-3-3 U14NOTE

PREPARATION FOR SERVICING

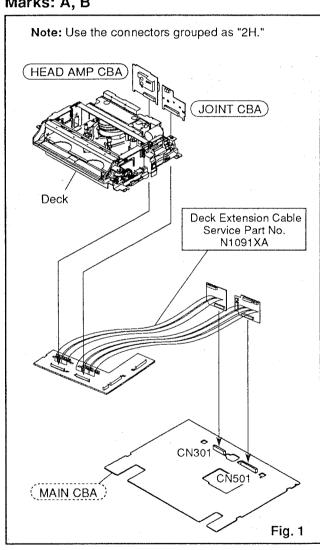
How to use Deck Extension Cable

- (1) Remove the Deck Mechanism Assembly. If needed, remove the Main CBA from the chassis. Refer to "Disassembly Instructions" on pg. 1-5-1.
- (2) Use the Deck Extension Cable to connect the Deck Mechanism Assembly to the Main CBA. (Deck Extension Cable: N1091XA)

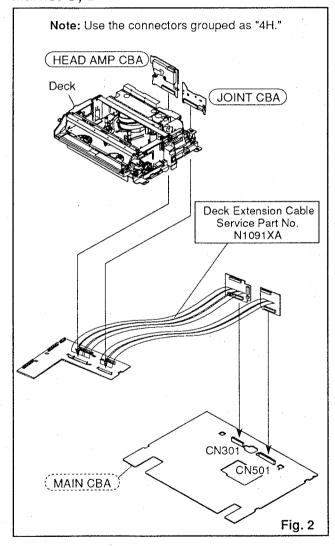
Comparison	Chart of	Modele	and	Marke
Companson	Chan of	Models	aniu	IVIAINS

Model	Mark	Model	Mark
13A-109	Α	13A-509	С
13A-129	В	13A-529	D

Marks: A, B



Marks: C, D



How to Enter the Service Mode

Note: When the unit is set in the service mode, the whole display will keep blinking.

About Optical Sensors

Caution:

An optical sensor system is used for the Tape Start and End Sensors on this equipment. Carefully read and follow the instructions below. Otherwise the unit may operate erratically.

What to do for preparation

After plugging in the unit, connect TP503 (SENSOR INHIBITION) to TP504 (GROUND). This will stop the function of Tape Start Sensor, Tape End Sensor and Reel Sensors. (If these TPs are connected before plugging in the unit, the function of the sensors will stay valid.)

Insert a tape into the Deck Mechanism Assembly and press the PLAY button. The tape will be loaded into the Deck Mechanism Assembly.

Note: Because the Tape End Sensors are inactive, do not run a tape all the way to the start or the end of the tape to avoid tape damage.

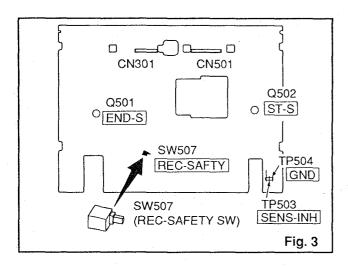
About REC-Safety Switch

Caution:

The REC-Safety Switch is directly mounted on the Main CBA. When the Deck Mechanism Assembly is removed from the Main CBA for servicing, this switch does not work automatically.

What to do for preparation

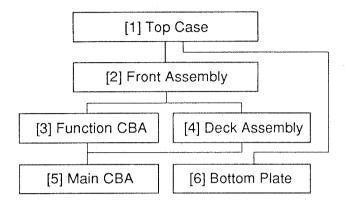
In order to record, press the Rec button while pushing REC-SAFETY SW on the Main CBA.



DISASSEMBLY INSTRUCTIONS

1. Disassembly Flowchart

This flowchart indicates the disassembly steps to gain access to item(s) to be serviced. When reassembling, follow the steps in reverse order. Bend, route, and dress the cables as they were originally.



Disassembly Method

ID/			REMOVAL	
LOC. No.	PART	Fig. No.	REMOVE/ *UNHOOK/UNLOCK/ RELEASE/UNPLUG/ DESOLDER	Note
[1]	Top Case	1	5(S-1)	
[2]	Front Assembly	2, 3	*7(L-1)	1
[3]	Function CBA	2, 4	*(L-2), (CN502)	2
[4]	Deck Assembly	5	7(S-2), (CN301, CN501)	3
[5]	Main CBA	4, 6, 7	2(S-4), *2(L-3)	4
[6]	Bottom Plate	6	*2(L-4)	5
1	2	3	4	5

- 1: Identification (location) No. of parts in the figures
- 2: Name of the part
- (3): Figure Number for reference
- (4): Identification of parts to be removed, unhooked, unlocked, released, unplugged, unclamped, or desoldered.

P=Spring, L=Locking Tab, S=Screw, CN=Connector

*=Unhook, Unlock, Release, Unplug, or Desolder

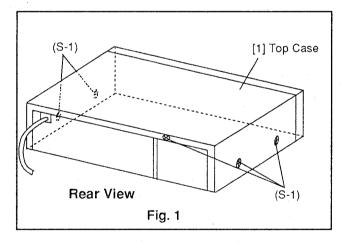
e.g. 2(S-2) = two Screws (S-2), 2(L-2) = two Locking Tabs (L-2)

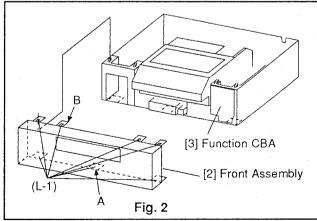
(5): Refer to "Reference Notes".

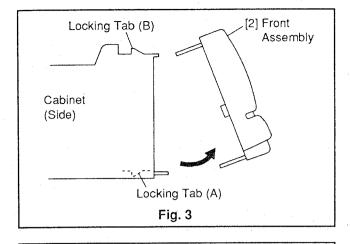
Reference Notes

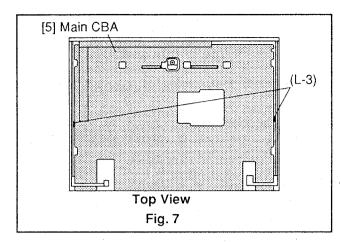
CAUTION Locking Tabs (L-1) are fragile. Be careful not to break them.

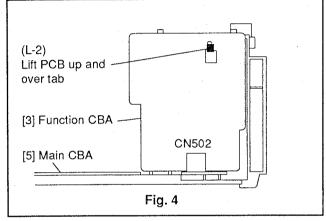
- 1. Release 7 Locking Tabs (L-1). To do this, first release three Locking Tabs (A) at the bottom, and then four Locking Tabs (B) at the top. (Fig. 2, 3)
- Disconnect Connector (CN5501) to remove Function CBA. Hold Main CBA while pulling up Function CBA. (Fig. 4)
- 3. Remove 7 Screws (S-2) and (S-3). Then slowly lift Deck Assembly up. Lifting Deck Assembly disconnects 2 Connectors (CN2901, CN3501). (Fig. 5)
- First remove 2 Screws (S-4). Then, releasing 2 Locking Tabs (L-3), lift Main CBA. (Fig. 6, 7)
- 5. If you are disassembling Bottom Plate before Main CBA, remove 2 Screws (S-4) now. Then slide Bottom Plate in the direction of the big arrow as you press down two Locking Tabs (L-4).

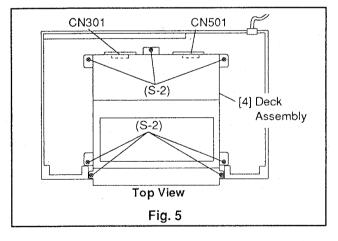


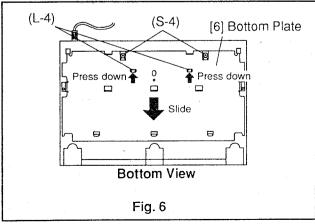












ELECTRICAL ADJUSTMENT INSTRUCTIONS

General Note: "CBA" is an abbreviation for "Circuit Board Assembly".

Notes:

- 1. Electrical adjustments are required after replacing circuit components and certain mechanical parts. It is important to do these adjustments only after all repairs and replacements have been completed. Also, do not attempt these adjustments unless the proper equipment is available.
- 2. To perform these alignment / confirmation procedures, make sure that the tracking control is set in the center position: Press both CHANNEL "UP" and "DOWN" buttons at the same time. (VCR' s Front Panel only)

Test Equipment Required

- 1. Oscilloscope: Dual-trace with 10:1 probe, V-Range: 0.001~50V/Div., F-Frange: AC~DC-20MHz
- 2. PAL Pattern Generator (color bar with 100% white)
- 3. Alignment Tape (FL6A)
- 4. Blank Tape (Available Locally)
- 5. Spectrum Analyzer
- 6. UP Converter
- 7. DC Voltmeter
- 8. TV Modulator
- 9. Distortion meter

Head Switching Position Adjustment

Purpose: To determine the Head Switching point during playback.

Symptom of Misadjustment: May cause Head Switching noise or vertical jitter in the picture.

Reference Note:

TP502, TP7501, VR501: Main CBA

 Play back the test tape and adjust VR501 so that the V-sync front edge of the CH1 video output waveform is at the 6.5H(412.7µs) delayed position from the rising edge of the CH2 head switching pulse waveform.

2. V-Out Level Adjustment

Purpose: To set optimum luminance video out level.

Symptom of Misadjustment: If the video out level is too high, The TV may overload. If the level is too low, The S/N ratio deteriorates.

Test Point	Adj. Point		Mode	Input	
TP7501 (V-OUT) GND	VR301 (E-E LEVEL	VR301 (E-E LEVEL)		Color Bar Signal with 100% white	
Tape	Measureme Equipmen			Spec.	
	Pattern Gener Oscilloscope	ator	1∃	:0.1Vp-p	
Conne	ctions of Meas	urer	nent Eq	uipment	
Main C	Video In	ttern O O	Oso	cilloscope	
Figure 2					

Reference Notes:

TP7501, VR301: Main CBA

- 1. Input the color bar signal with window 100% white to video input.
- 2. Adjust VR301 so that the video level becomes 1±0.1Vp-p. (Connected to TV)

3. FM Carrier Adjustment

Purpose: To align FM carrier deviation.

Symptom of Misadjustment: If the deviation is not correct, abnormal contrast of light and dark on the picture may be seen.

If the carrier deviation is not correct, beats appear on the picture.

on the pictu	16.		
Test Point	Adjustment Point	Mode	Input
TP301 (Y-REC) TP502 (RF-SW) GND	VR302 (Y-CAR)	REC. (SP)	Color Bar with 100% white
Tape	Measurement Equipment	Sp	ec.
Blank Tape	Pattern Generator Spectrum An- alyzer Oscilloscope	Syn 3.8±0.	c-tip 1MHz
Connection	ons of Measuren	nent Equip	ment
·	Pattern Generator	·	n Analyzer
	Out o	Oscillos	In o
Main CBA	Video In TP301 GND TP502	CI	Out
	Figure 3		<u> </u>
3.8MHz Sync-tip			

Reference Notes:

TP301, TP502, VR302: Main CBA

- 1. Input color bar signal with 100% white to video input.
- 2. Adjust Sync-tip to 3.8MHz± 0.1MHz by VR302.

4. IF Unit Adjustment 1

Note: Remove the IF unit from the Main CBA.

4-1. Adjacent Channel Trap Adjustment 1

Purpose: To comply IF for local radio wave regulation.

Symptom of Misadjustment: If may cause the noise in picture that audio IF may affect to video IF. If the frequency of trap overlape on video IF, IC input level WII be lower and The S/N ratio will be lower.

Test Point	Adj. Point	Mode	Input
Pin1 of CN01 Pin1 of F01 (Saw Filter)	T05 (TRAP)		40.4MHz (70dBμV sine wave)
Таре	Measurement Equipment		Spec.
	Standard Signal Generator Oscilloscope Spectrum Analyzer		
Connection	ons of Measurem	ent Equ	uipment
		Spectr	um Analyzer
Star	oderd Signal Genera Out o		In O
IF CBA	GND F01(pin1)		Out Out

Reference Notes:

Pin1 of CN01, Pin1 of F01, T05: IF CBA (IF unit)

- 1. Input Signal to Pin1 of CN01.
- 2. Adjust core of Coil T05 so that the waveform level becomes minimum.

4-2. Adjacent Channel Trap Adjustment2

Purpose: To comply IF for local radio wave regulation.

Symptom of Misadjustment: If may cause the noise in picture that audio IF may affect to video IF.

If the frequency of trap overlape on video IF, IC input level WII be lower and The S/N ratio will be lower.

lower.			
Test Point	Adj. Point	Mode	Input
Pin1 of CN01 Pin1 of F01 (Saw Filter)	T05 (TRAP)		31.9MHz (70dBμV sine wave)
Таре	Measurement Equipment	Spec.	
	Standard Signal Generator Oscilloscope Spectrum Analyzer		
Connection	ons of Measurem	ent Equ	uipment
		Spectr	um Analyzer
Star	oderd Signal Genera Out o	tor	ln O
IF CBA	CN01(pin1)		Oscope Out

Reference Notes:

Pin1 of CN01, Pin1 of F01, T06: IF CBA (IF unit)

- 1. Input Signal to Pin1 of CN01.
- 2. Adjust core of Coil T06 so that the waveform level becomes minimum.

5. IF Unit Adjustment 2

Note: Install the IF unit on Main CBA.

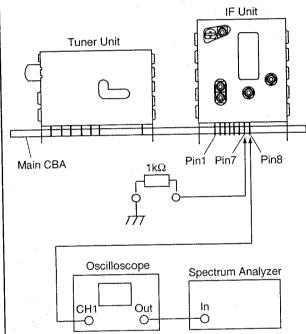
5-1. VCO Adjustment

Purpose: To adjust IF signal to optimum frequency .

Symptom of Misadjustment: Tunning will result un-

syncronized

Test Point	Adj. Point	Mode Input	
Pin7 of CN01 Pin8 of CN01	T02 (VCO)		
Таре	Measurement Equipment		Spec.
	Oscilloscope Spectrum Analyzer		
Connecti	ons of Measurem	ent Eq	uipment



Reference Notes:

Pin7 of CN01, Pin8 of CN01, T02: IF CBA (IF Unit)

- 1. Connect 1k $\Omega(1/4W)$ Resistor between Pin7 of CN01 and GND line.
- Adjust T02 (COIL) so that the VCO of the frequency becomes following value.

Alignment value= *IF frequency ± 25kHz

*IF frequency= 38.9MHz

Note: Set the range of Adjust Spectrum Analyzer 2MHz first for rough adjust then set to 50kHz for precise adjustment.

5-2. AFT Adjustment

Note: Remove the R710(resistor) from the Main CBA.

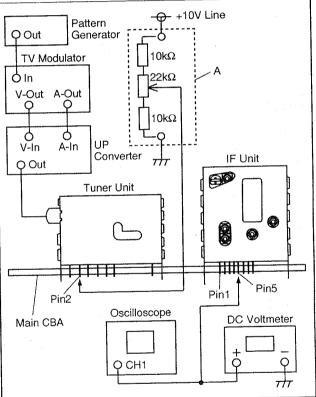
Purpose: To adjust AFT effective rang which correct uncyncronized tuning after tuner preset.

Symptom of Misadjustment: May cause uncyncron-

ized tuning after tuner preset.

Test Point	Adj. Point	Mode	Input
Pin5 of CN01 Pin2 of TU701	T03 (AFT)		Color Bar with 100% white
Tape	Measurement Equipment		Spec.
	TV modulator UP converter Pattern Generator Oscilloscope DC voltmeter	DC	2.5V±0.3V

Connections of Measurement Equipment



Reference Notes:

Pin5 of CN01, T03: IF CBA (IF Unit)

Pin2 of TU701: Tuner unit

- 1. Make the service fixture shown in the above " A".
- 2. Adjust 22k Ω P.O.T. in the service fixture so that the tuner receives the following frequency.
- *Tuner reception frequency= 203.25MHz (VHF H renge, VT= 5~6V)
- *Electric field strength: 70dBµV
- *IF frequency= 38.9MHz

- 3. Set the tuner in preset made and tuner to the above frequency.
- 4. Adjust core of Coil T03 so that the AFT voltage becomes DC 2.5V±0.3V.

5-3. Audio distortion Adjustment

Note: Install the R710(resistor) in Main CBA.

Purpose: To minimize the audio distortion.

Symptom of Misadjustment: May cause audio dis-

tortion.

Test Point	Adj. Point	Mode	Input
Pin6 of CN01	T04 (DISTORTION)		
Таре	Measurement Equipment	Spec.	
	Pattern Generator UP convertor TV Modulator Oscilloscope Distortion meter		
Connection	ons of Measurem	ent Equ	ipment
TV Modulator In V-Out A-Out V-In A-In OOut	UP Convertor	IF U	nit
Main CBA	Oscilloscope Piń1	סם ו	C Voltmetor

Reference Notes:

Pin6 of CN01, T04: IF CBA (IF unit)

*IF tuner unit of tuner reception condition:

CH₁

Tuner input = 1kHz (Monaural)

1. Adjust core of Coil T04 so that the audio distortion becomes minimum level.

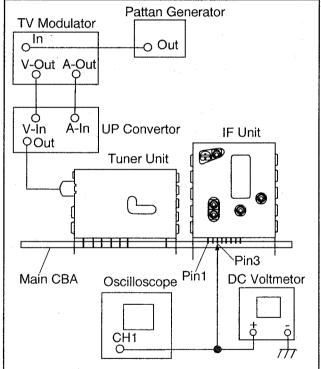
6. AGC Adjustment

Note: Install the IF unit in Main CBA.

Purpose: To adjust the strength of received air signal.

Symptom of Misadjustment: May cause noise or

beat in the	oicture.		
Test Point	Adj. Point	Mode	Input
Pin3 of CN01	VR01 (AGC)		Color Bar with 100% white
Таре	Measurement Equipment		Spec.
	Standard Signal Generator Oscilloscope SpectrumAna- lyzer DC Voltmeter		
Connection	ons of Measureme	ent Equ	ipment
TV Modulator On V-Out A-Out	Out	ator	



Reference Notes:

Pin3 of CN01, VR01: IF CBA (IF unit)

*IF tuner unit of Tuner reception condition:

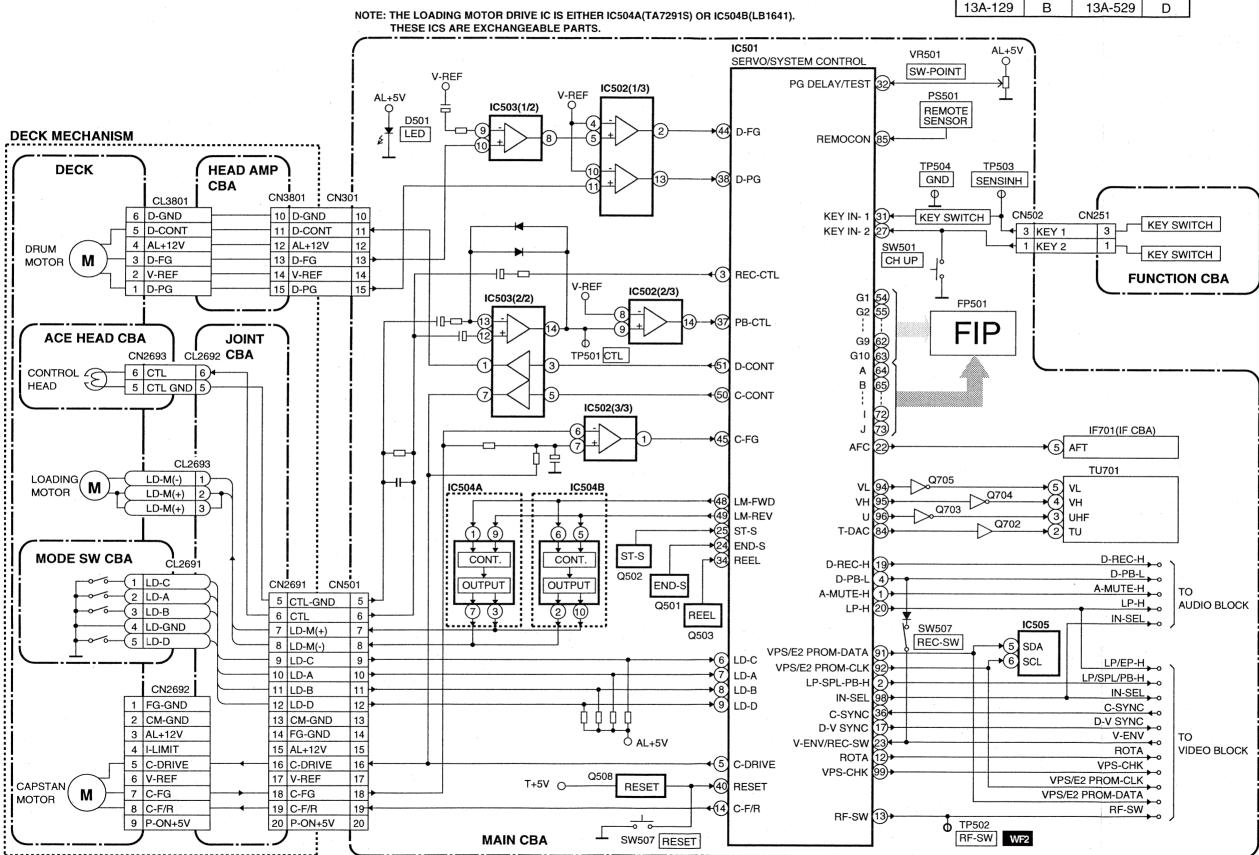
Tuner input = 1kHz

- 1. Set the tuner in preset made and tuner to the above frequency.
- *Tuner reception frequency= 203.25MHz (VHF H renge)
- *Electric field strength: 70dBµV
- 2. Adjust VR01 so that the voltage of AGC becomes the following level.
- *DC voltmeter level=DC 4.0V±0.2V

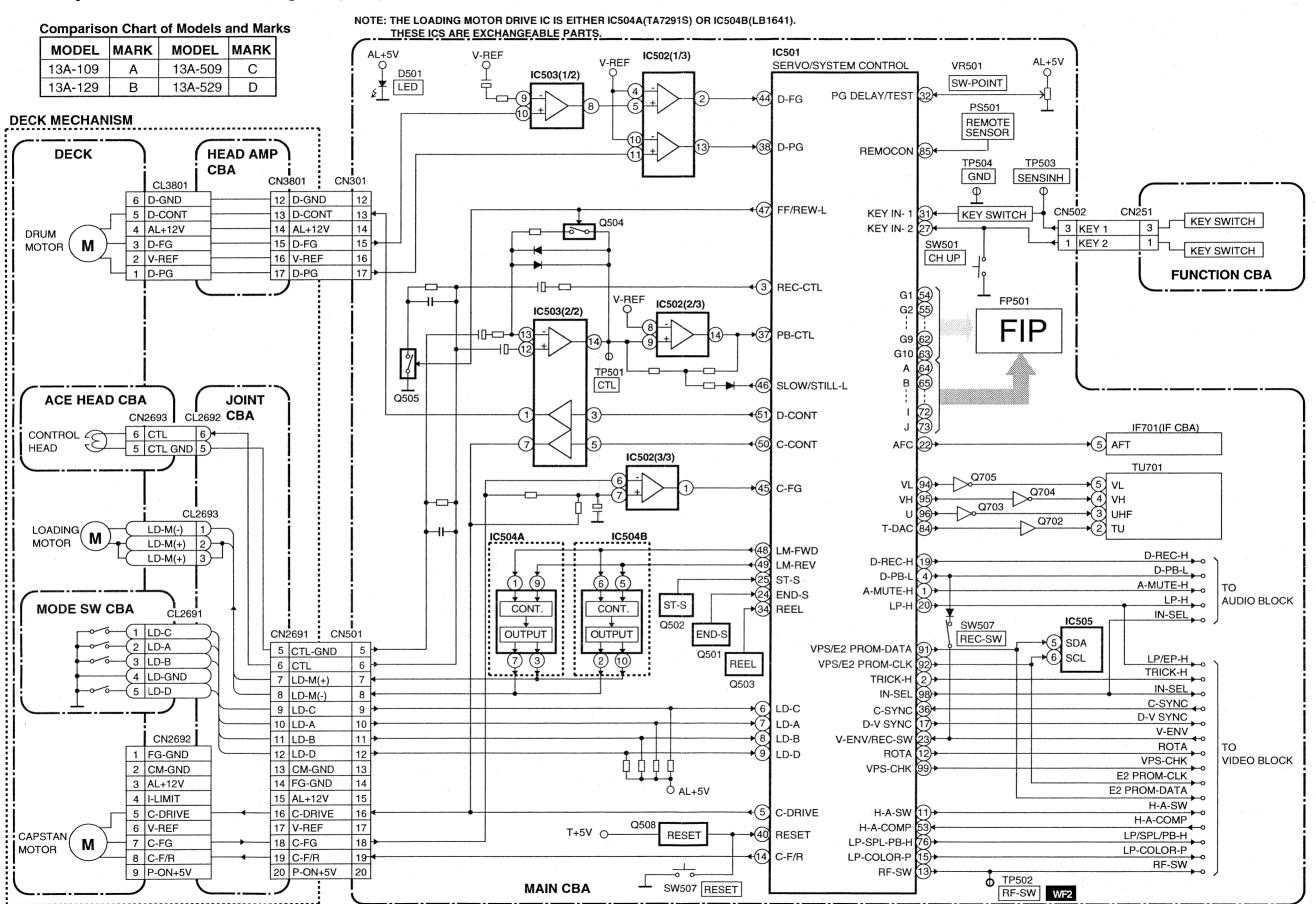
BLOCK DIAGRAMS

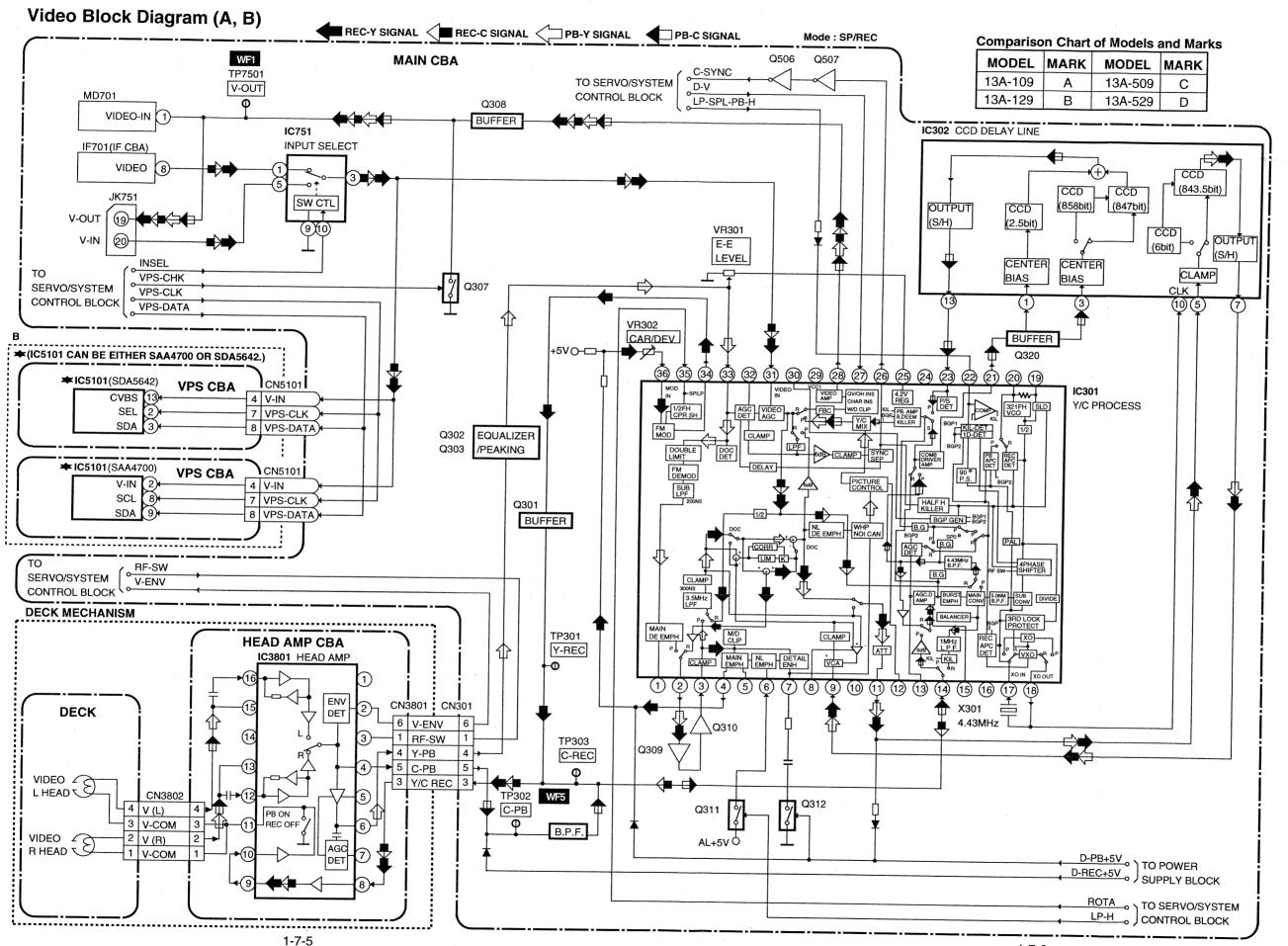
Comparison Chart of Models and Marks

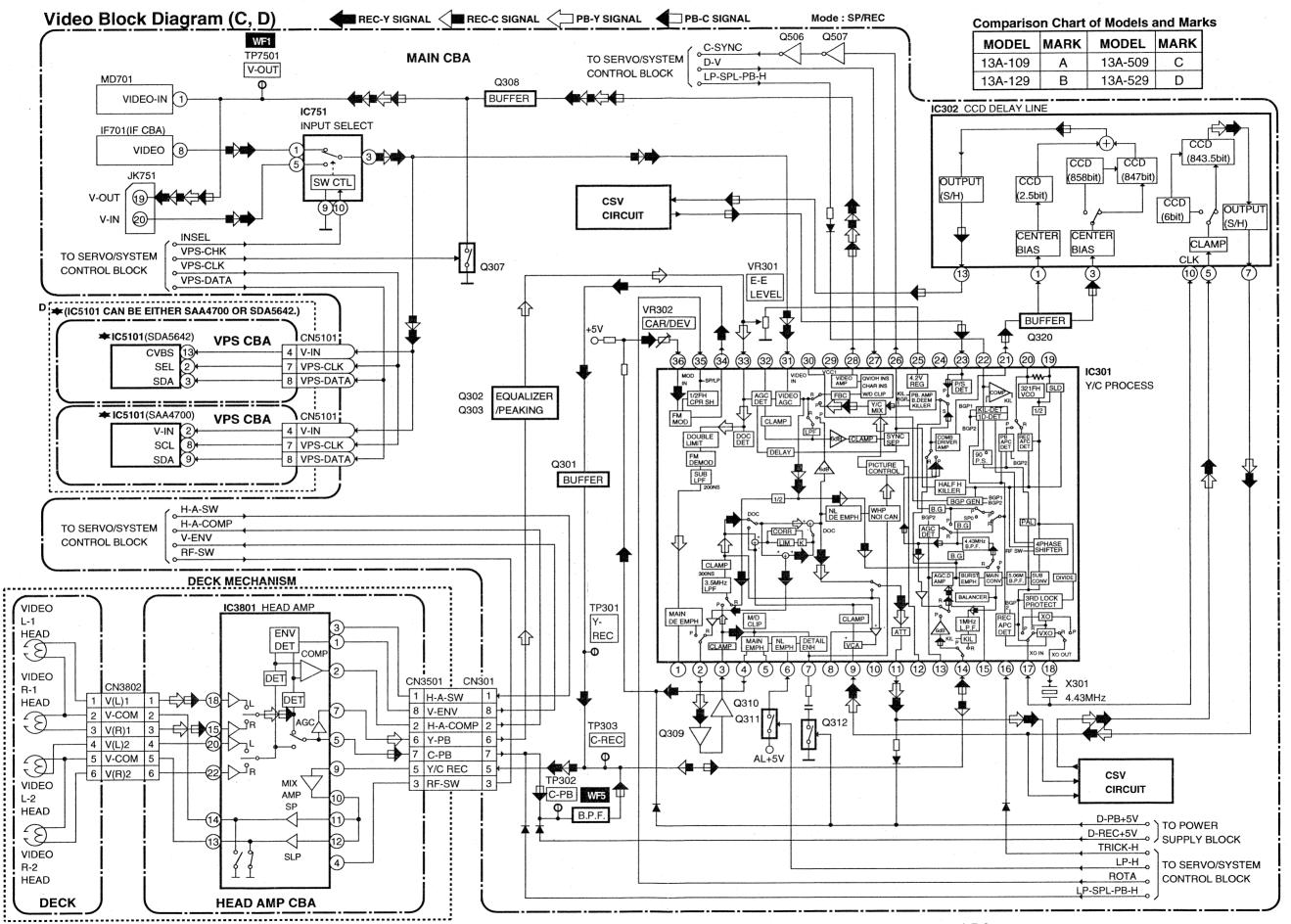
MODEL	MARK	MODEL	MARK
13A-109	Α	13A-509	C
13A-129	В	13A-529	D



Servo/System Control Block Diagram (C, D)



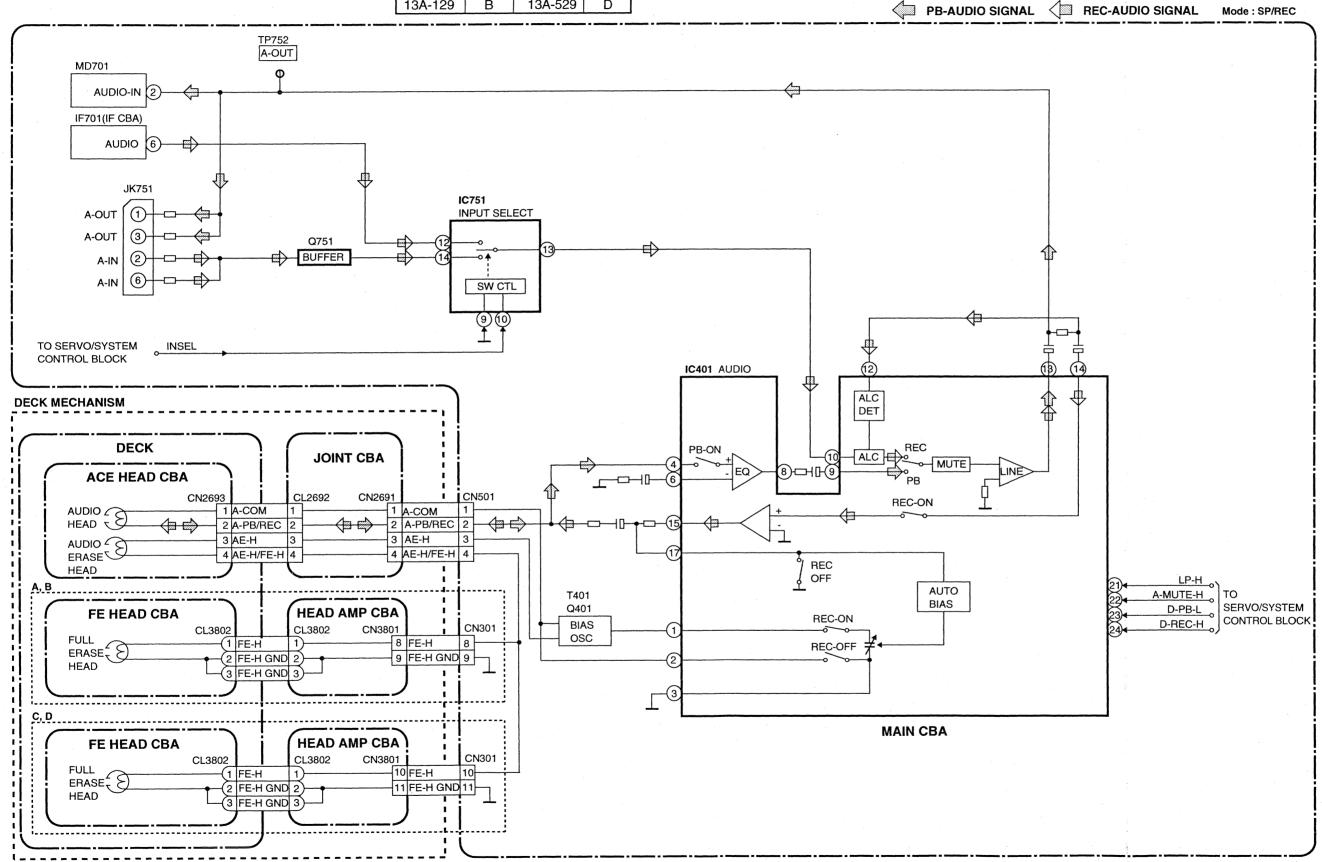


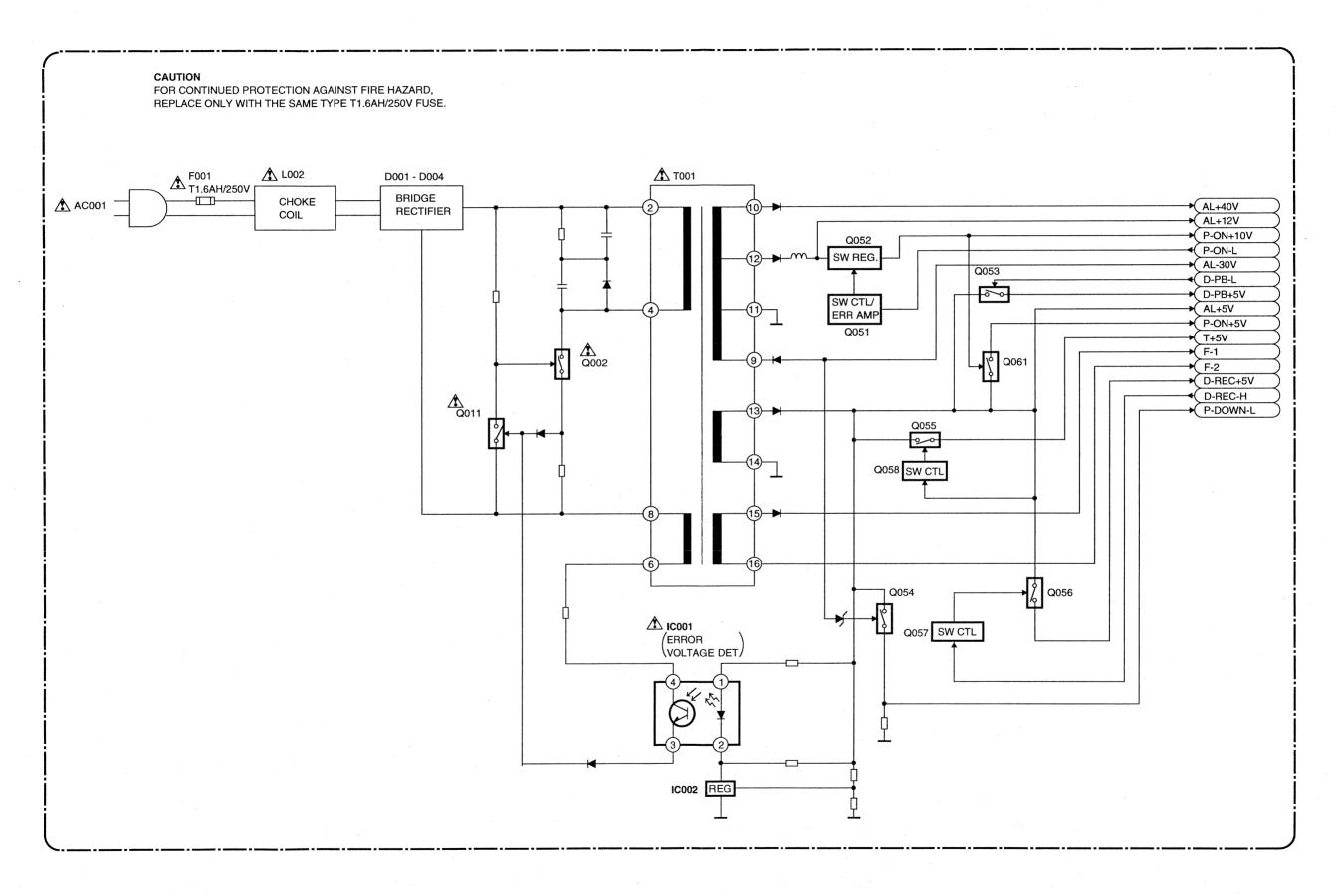


Audio Block Diagram

Comparison Chart of Models and Marks

MODEL	MARK	MODEL	MARK
13A-109	Α	13A-509	С
13A-129	В	13A-529	D





SCHEMATIC DIAGRAMS / CBA'S AND TEST POINTS

Standard Notes

WARNING

Many electrical and mechanical parts in this chassis have special characteristics. These characteristics often pass unnoticed and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts that have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by the mark " ^ " in the schematic diagram and the parts list. Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts that do not have the same safety characteristics as specified in the parts list may create shock, fire, or other hazards.

Capacitor Temperature Markings

Mark	Capacity	Standard	Temperature	
	change rate	temperature	range	
(B)	±10%	20°C	-25~+85°C	
(F)	+30 -80%	20°C	-25~+85°C	
(SR)	±15%	20°C	-25~+85°C	
(Z)	+30 -80%	20°C	-10~+70°C	

Note:

- 1 Do not use the part number shown on these drawings for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since these drawings were prepared.
- ² All resistance values are indicated in ohms $(K=10^3, M=10^6)$.
- 3 Resistor wattages are 1/5W or 1/6W unless otherwise specified.
- 4 All capacitance values are indicated in μ F (P=10⁻⁶ μ F).
- 5 All voltages are DC voltages unless otherwise specified.
- 6 Electrical parts such as capacitors, connectors, diodes, IC's, transistors, resistors, switches, and fuses are identified by four digits. The first two digits are not shown for each component. In each block of the diagram, there is a note such as shown below to indicate these abbreviated two digits.

Capacitors and transistors are represented by the following symbols.

CBA Symbols Schematic Diagram Symbols (Top View) (Bottom View) Digital Transistor : Electrolytic Capacitor (Bottom View) Transistor or Digital Transistor (Top View) (Top View) NPN Transistor PNP Transistor ECB (Top View) (Top View) NPN Digital Transistor PNP Digital Transistor ECB ECB

LIST OF CAUTION, NOTES, AND SYMBOLS USED IN THE SCHEMATIC DIAGRAMS ON THE FOLLOWING PAGES:

1. CAUTION:

FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE FUSE.

2. CAUTION:

Fixed Voltage power supply circuit is used in this unit.

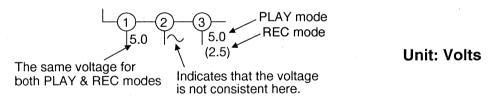
If Main Fuse (F01) is blown, first check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.

3. Note:

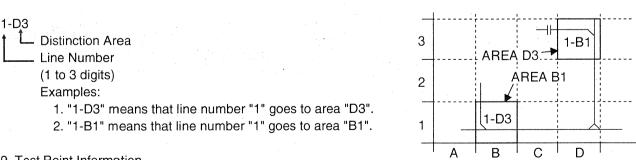
- (1)Do not use the part number shown on the drawings for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since the drawings were prepared.
- (2)To maintain original function and reliability of repaired units, use only original replacement parts which are listed with their part numbers in the parts list section of the service manual.

4. Wire Connectors

- (1)Prefix symbol "CN" means "connector." (Can disconnect and reconnect)
- (2)Prefix symbol "CL" means "wire-solder holes of the PCB." (Wire is soldered directly.)
- 5. Note: Mark "•" is a leadless (chip) component.
- 6. Mode: SP/REC
- 7. Voltage indications for PLAY and REC modes on the Schematics are as shown below:



8. How to read converged lines

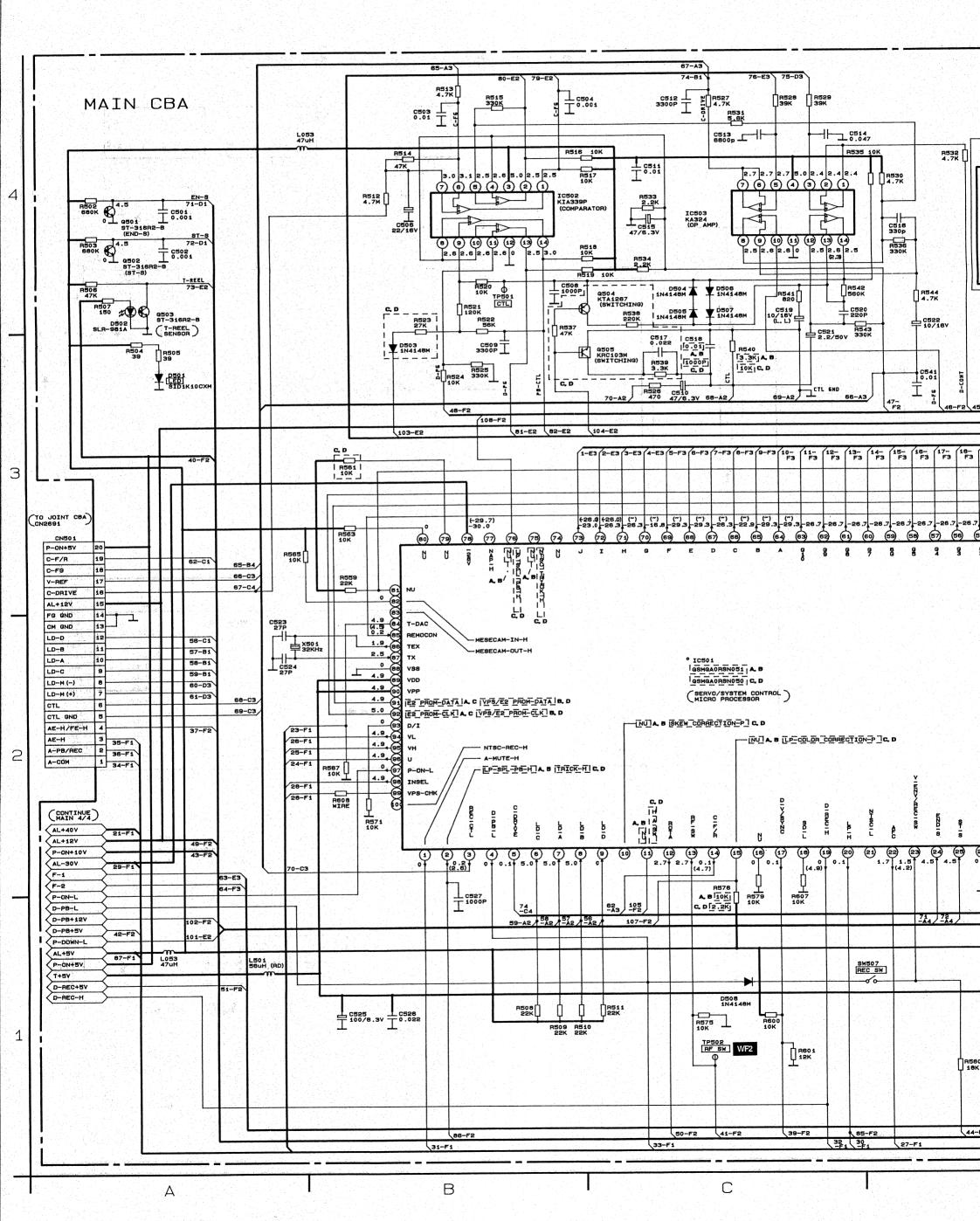


9. Test Point Information

: Indicates a test point with a jumper wire across a hole in the PCB.

: Used to indicate a test point with a component lead on foil side.

: Used to indicate a test point with no test pin. : Used to indicate a test point with a test pin.

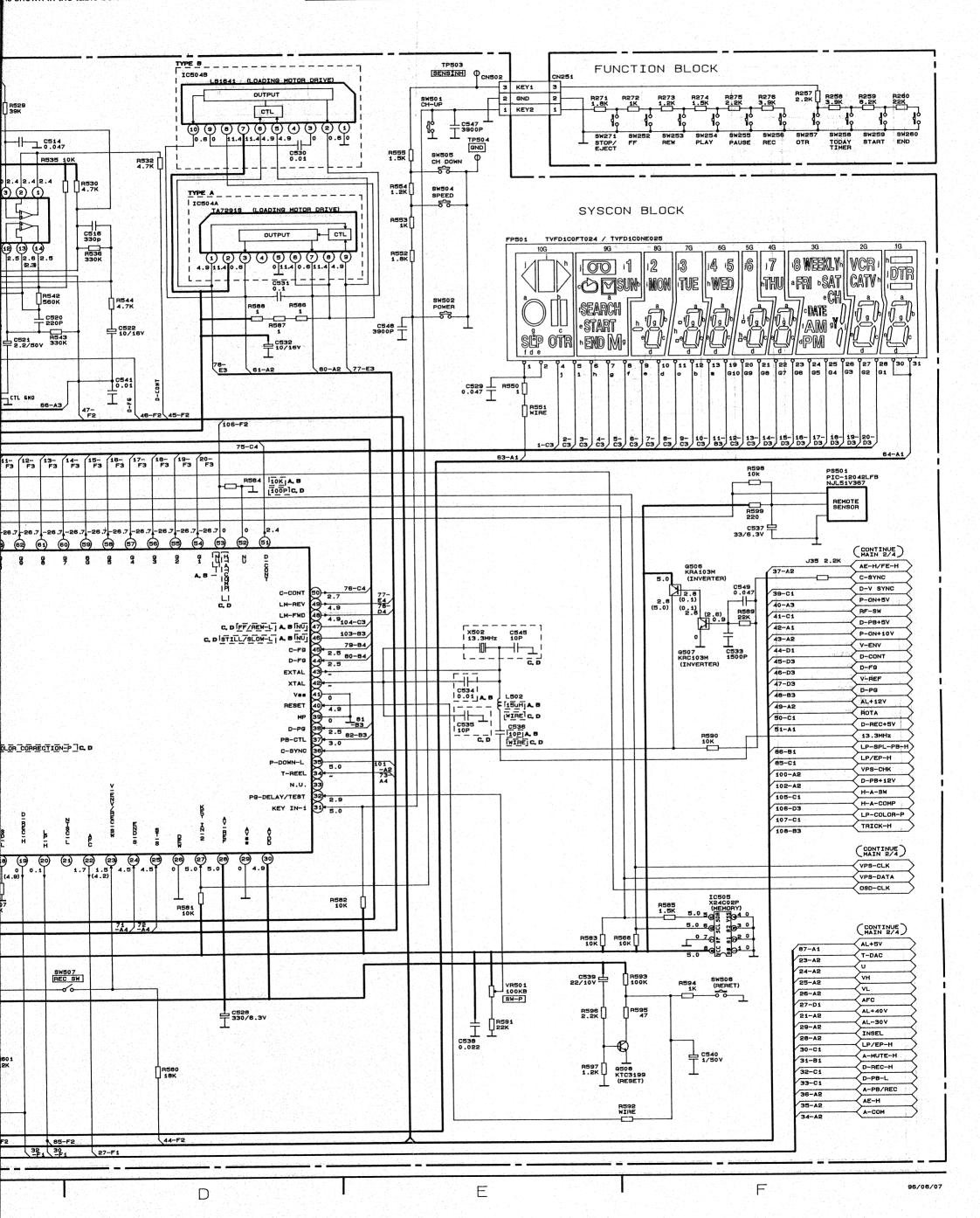


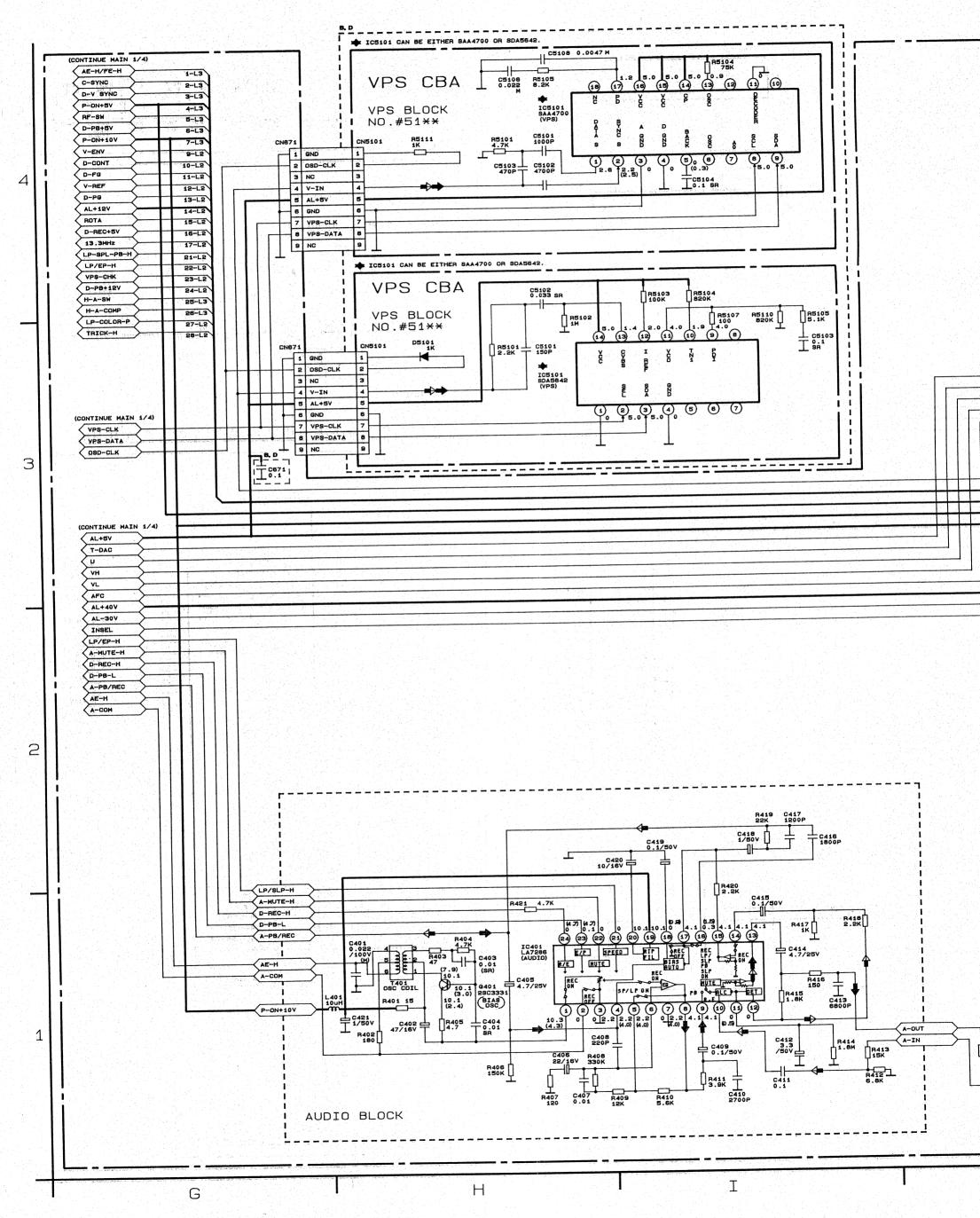
ding motor drive IC is either type A or type B. bes are exchangeable and can be equally wer the model is. The difference between type is shown in the table below.

	IC504A	IC504B	C530
Type A	TA7291S	Not Used	Not Used
Type B	Not Used	LB1641	Used

Comparison Chart of Models and Marks

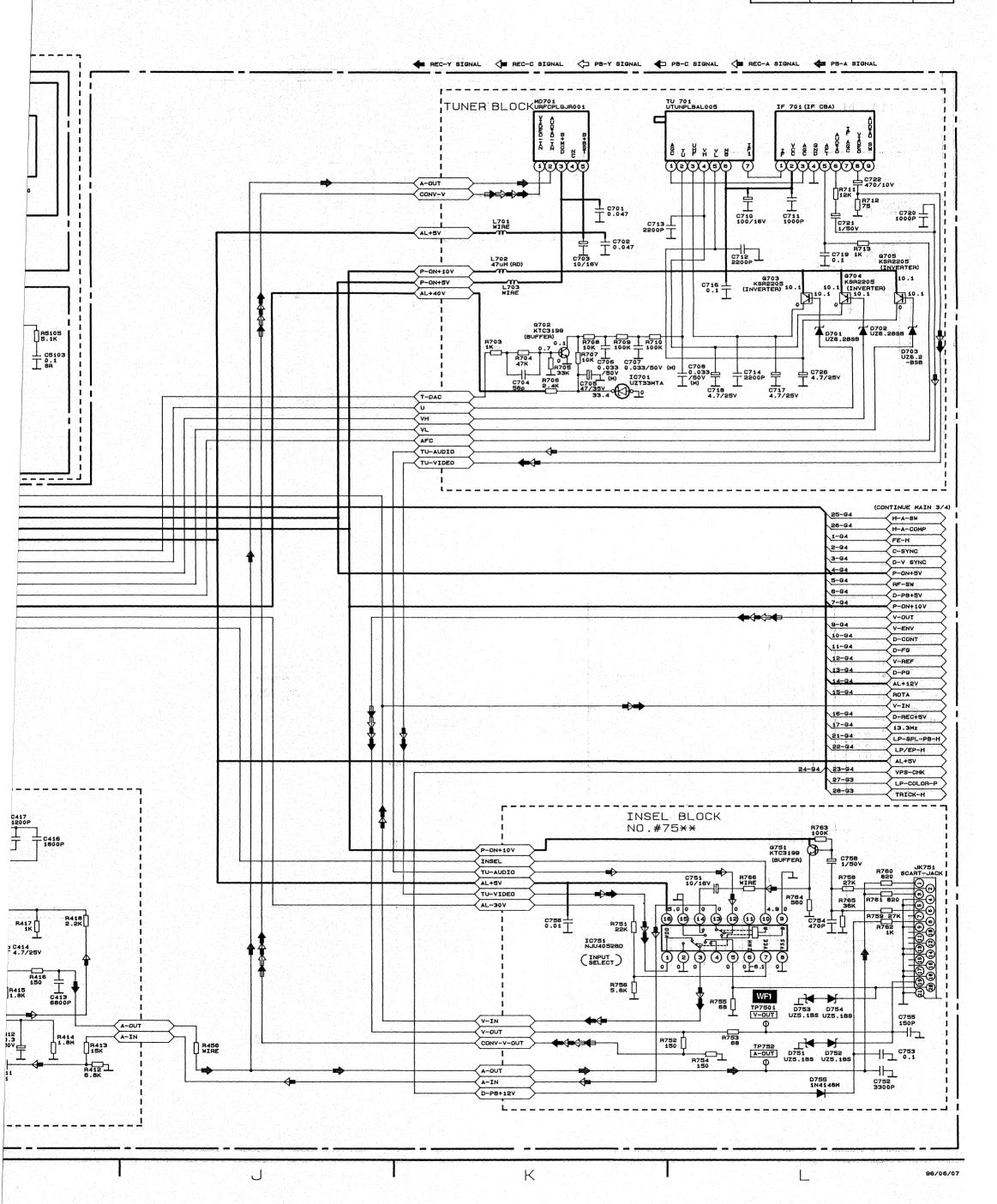
MODEL	MARK	MODEL	MARK
13A-109	Α	13A-509	С
13A-129	В	13A-529	D

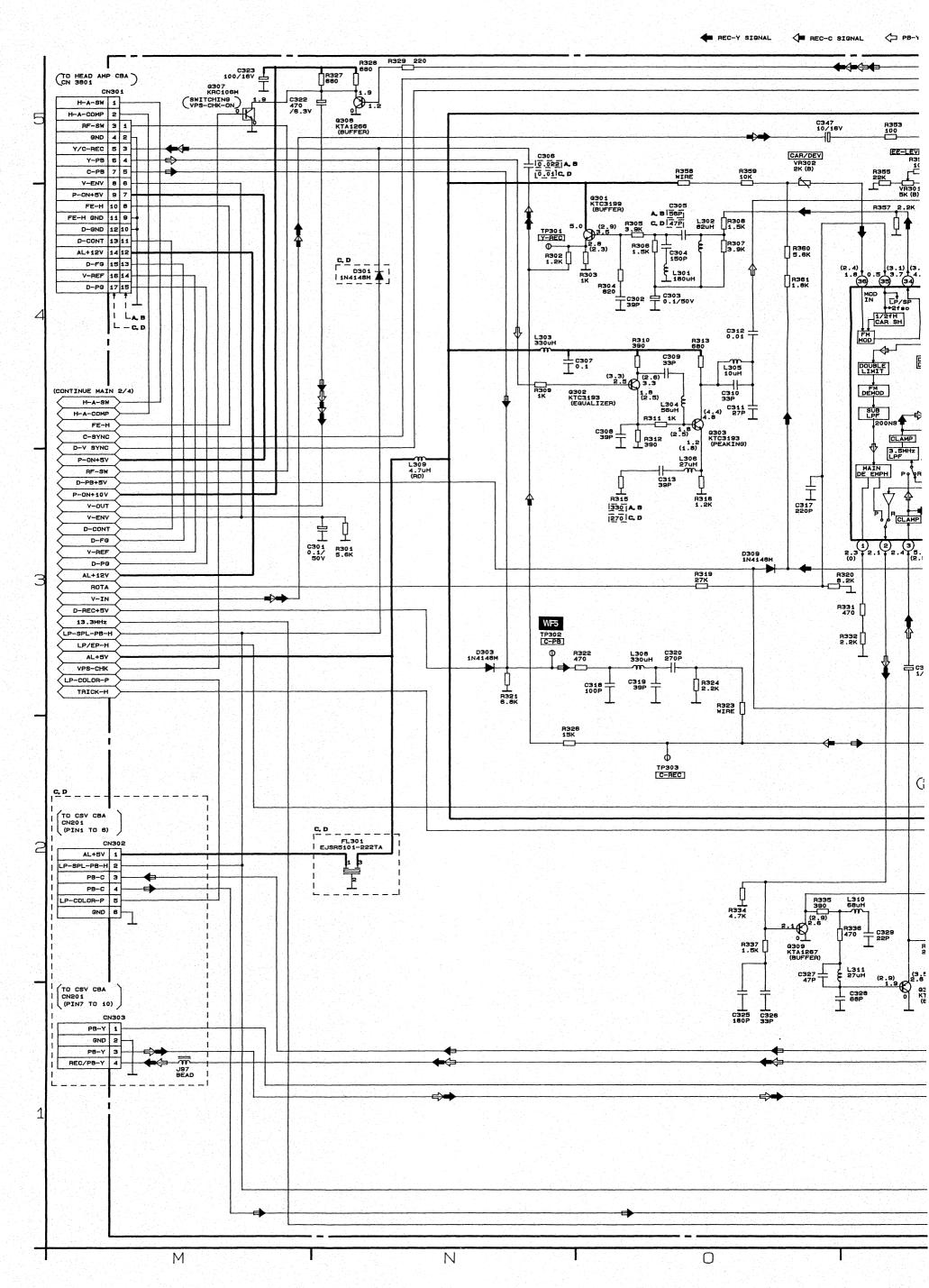




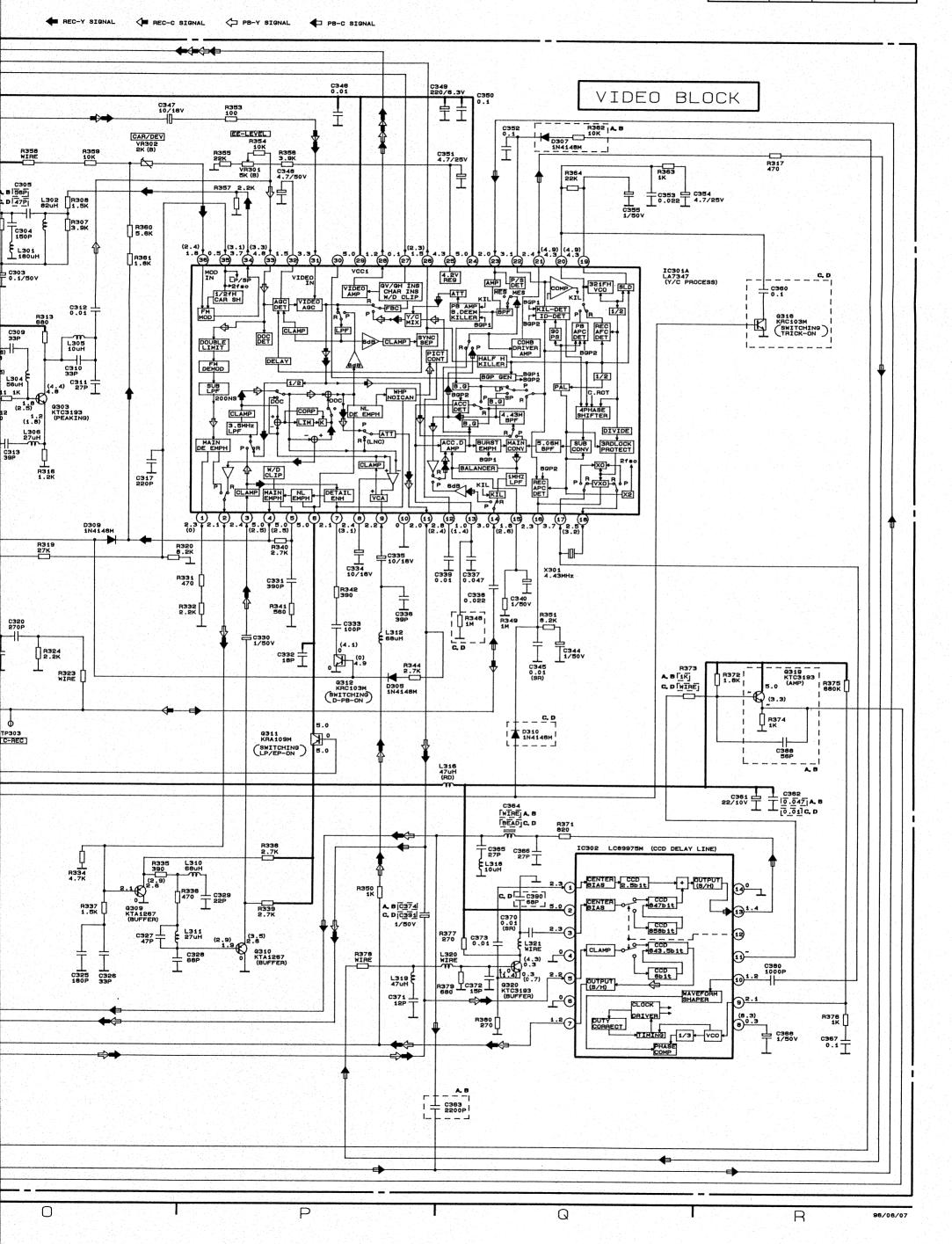
Comparison Chart of Models and Marks

MODEL	MARK	MODEL	MARK	37
13A-109	Α	13A-509	С	
13A-129	В	13A-529	D	





MODEL	MARK	MODEL	MARK
13A-109	Α	13A-509	С
13A-129	В	13A-529	D



Main 4/4 Schematic Diagram

CAUTION

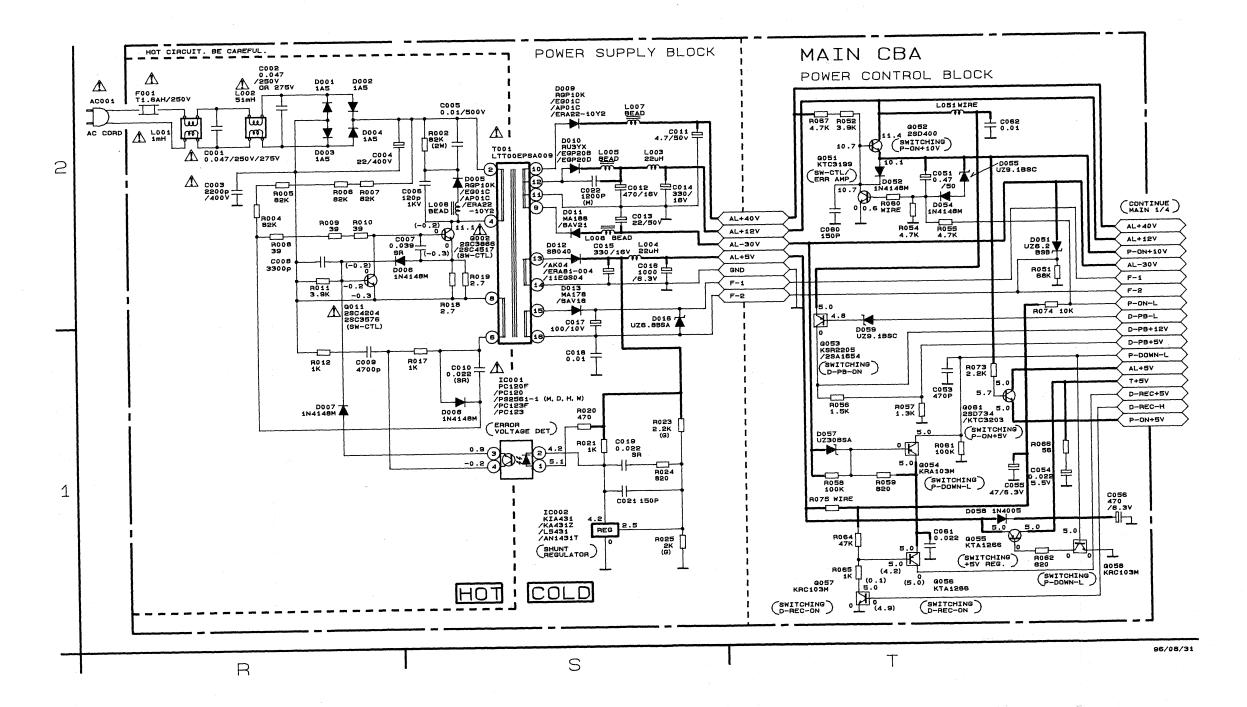
FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE FUSE.

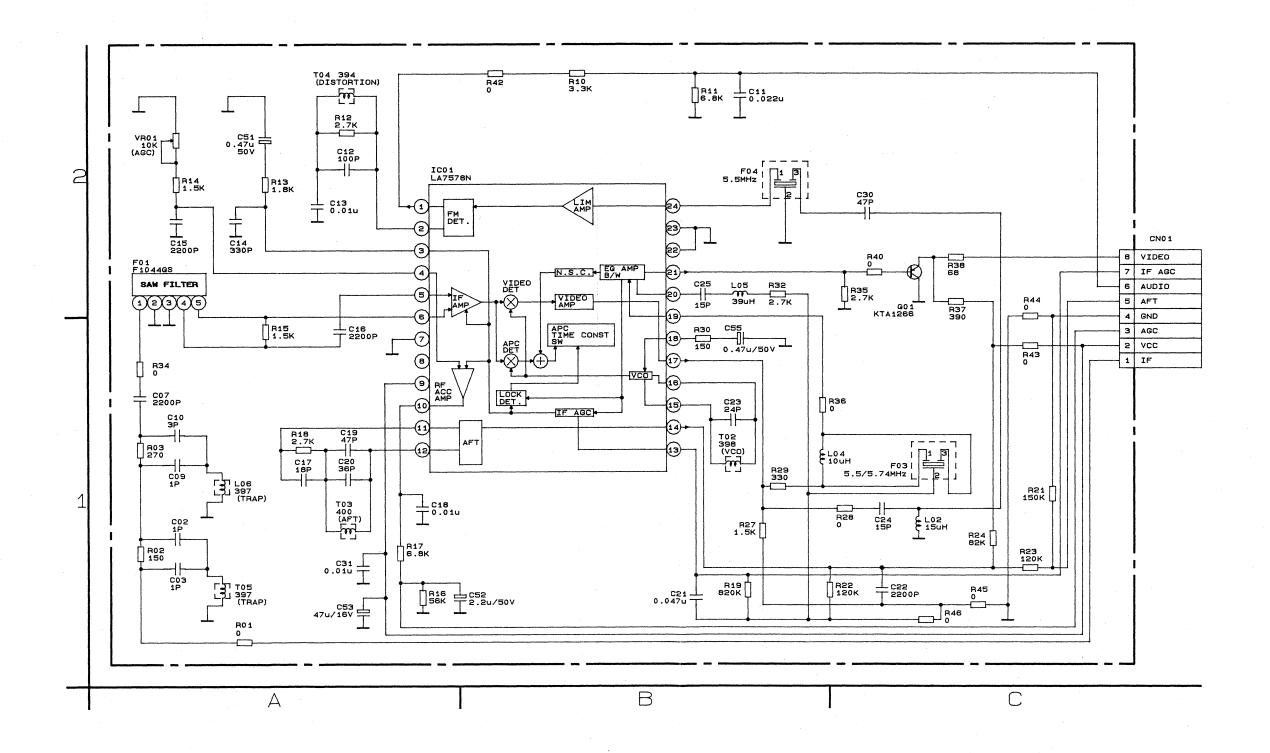
NOTE: THE VOLTAGE FOR PARTS IN HOT CIRCUIT IS MEASURED USING HOT GND AS A COMMON TERMINAL.

CAUTION!

Fixed voltage power supply circuit is used in this unit.

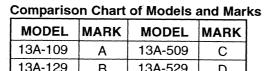
If Main Fuse (F01) is blown, check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.

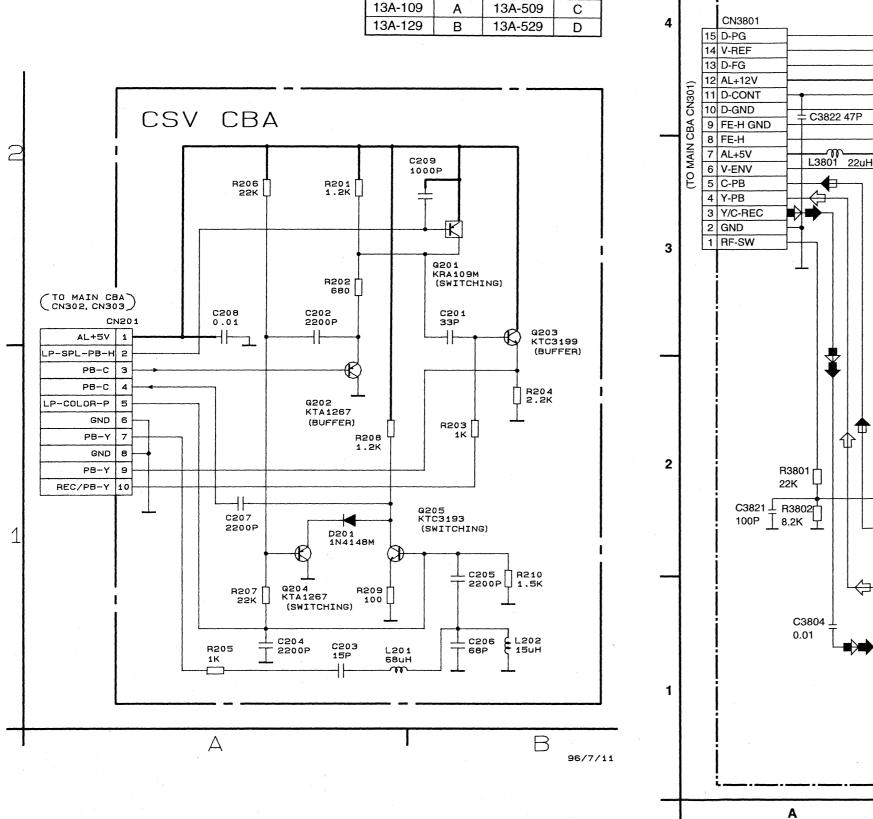




CSV Schematic Diagram (C, D)

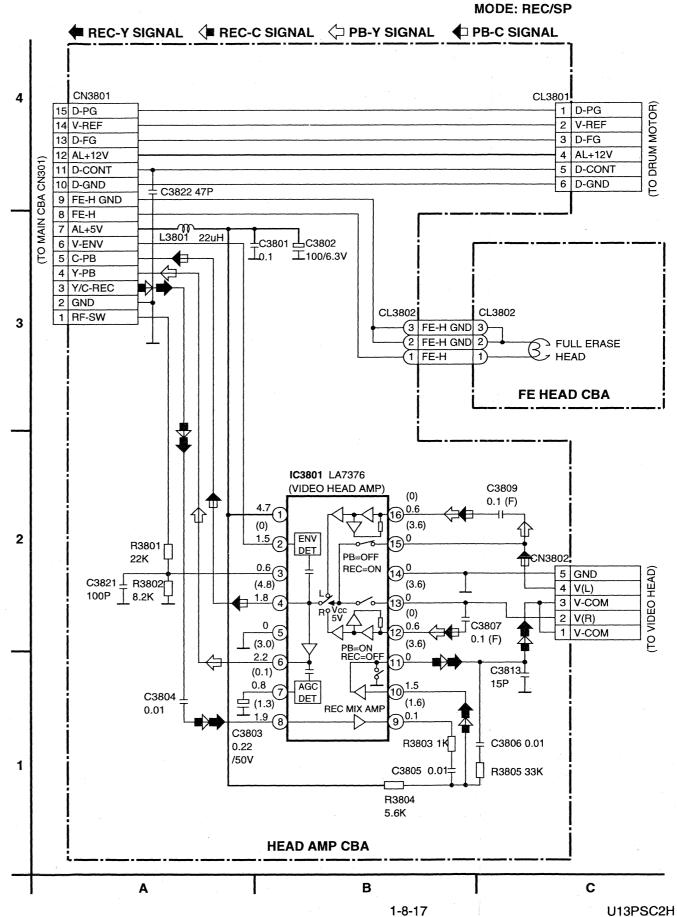
Head Amp/FE-Head Schematic Diagram (A, B)

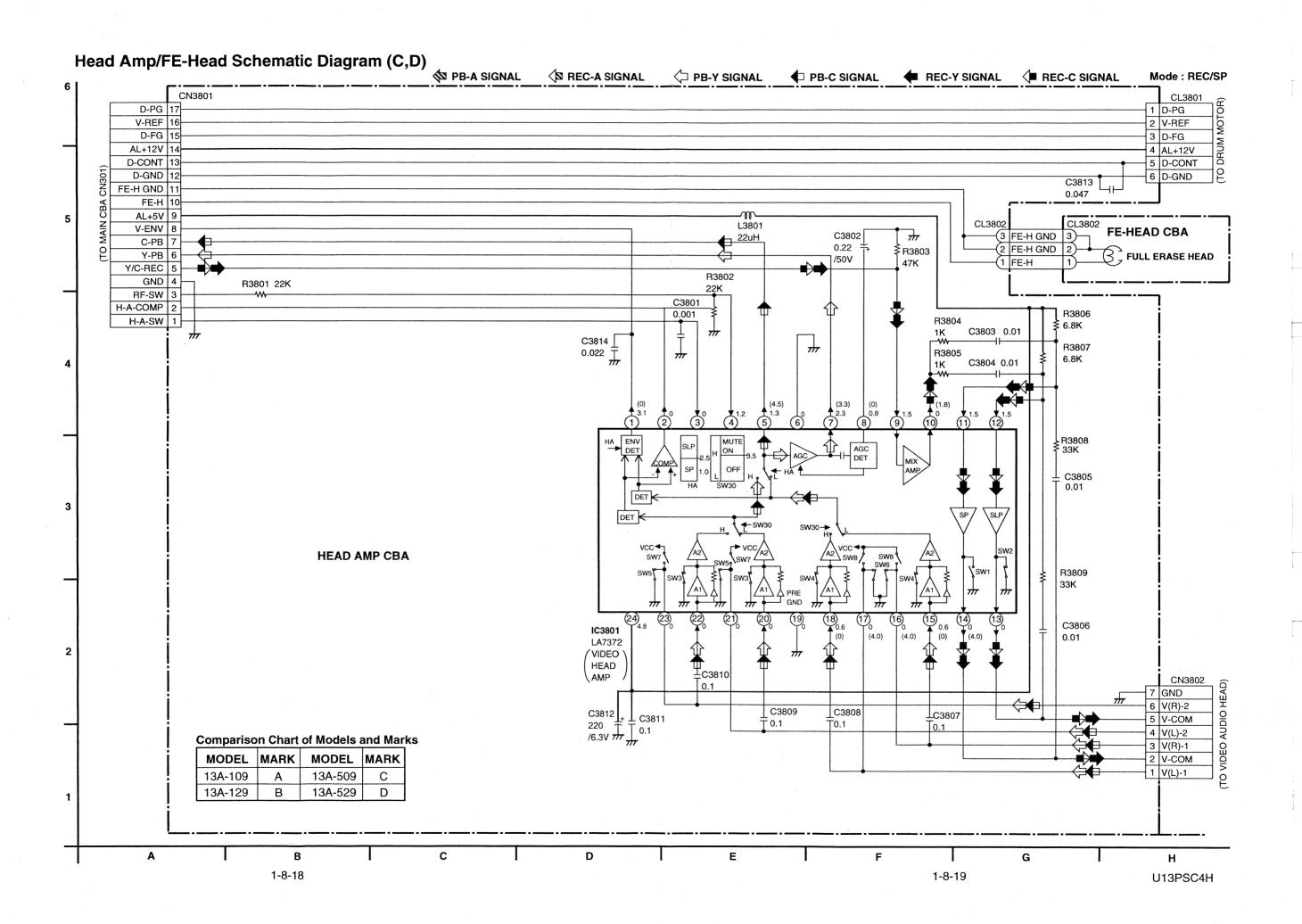




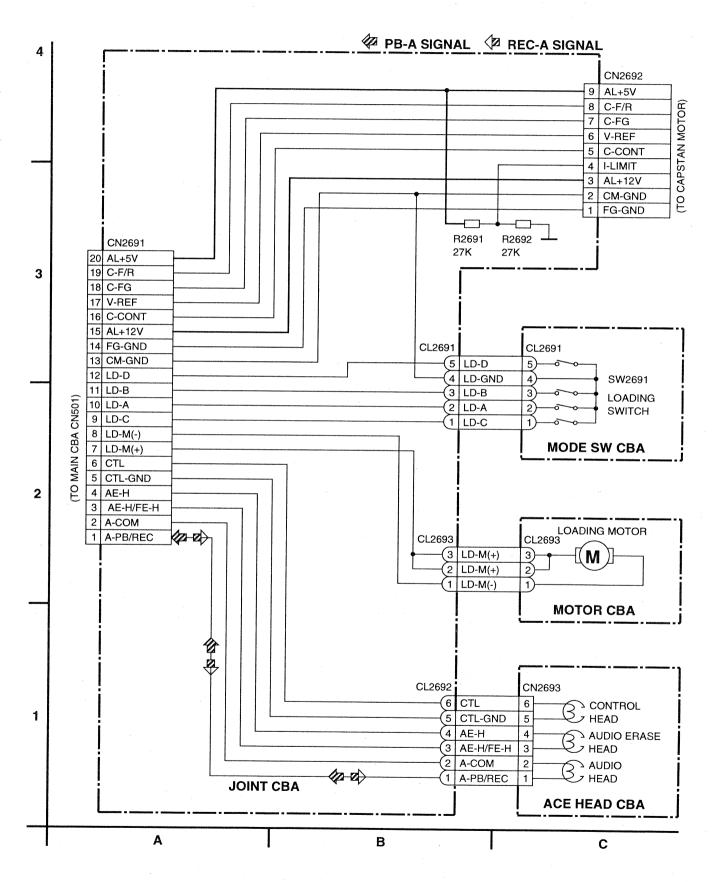
1-8-16

H6302CSV





Joint/Mode Sw/Ace Head/Motor Schematic Diagram



Main CBA Top View (CBA NO.: BH6102F01011A)

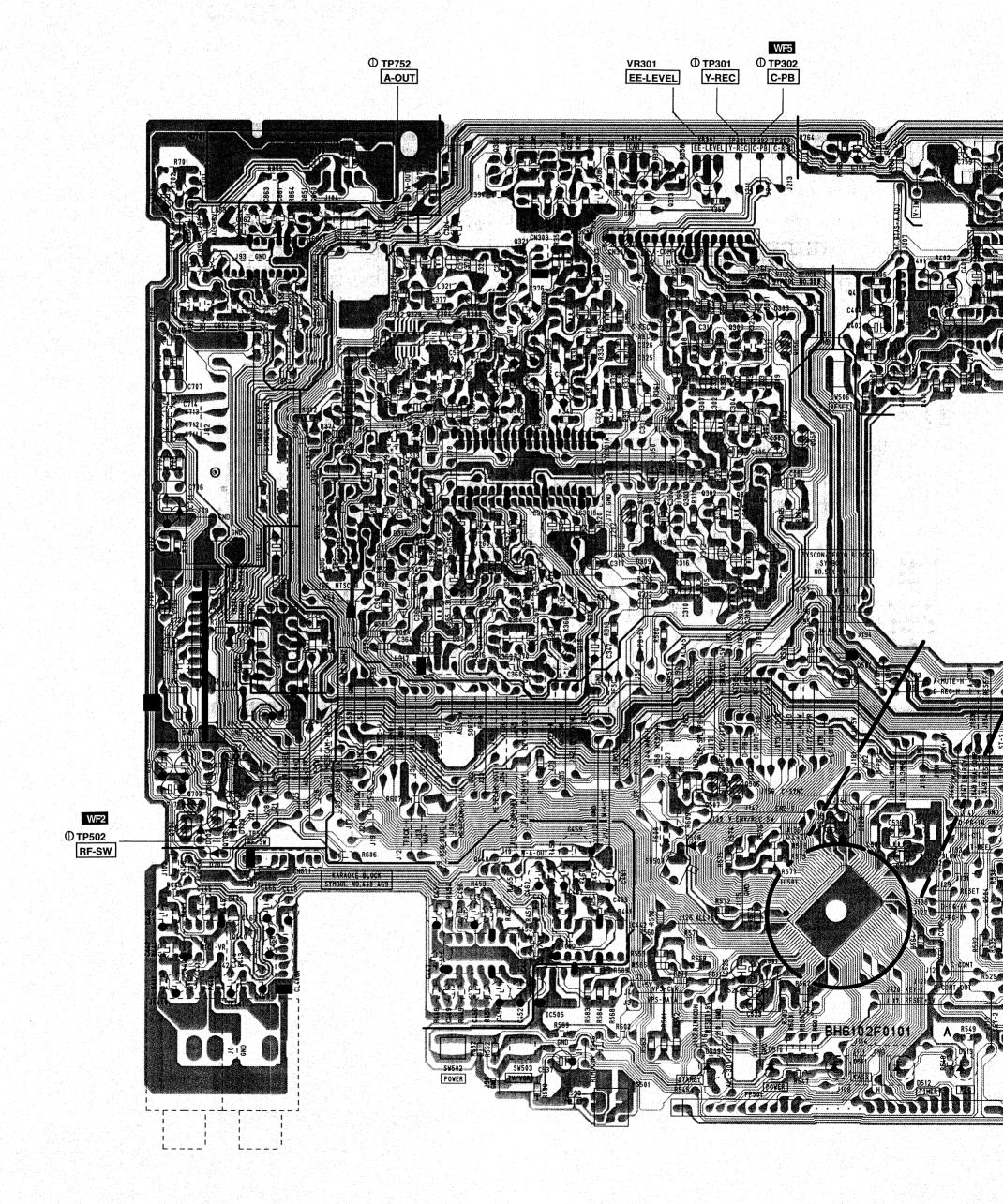
NOTE:

The models covered by this manual employ two exchangeable Main CBAs which have the same parts but have patterns the are slightly different. (One of these two CBAs was provided to improve the production efficiency.) These CBAs can be identified by their CBA numbers that are screened on the lower left-hand conner of the top side. This number reads BH6102F0101 on the bottom line. Screened on top of this line is 1A or 2A, the last segment of the CBA number. when servicing, confirm this number of your unit to see which CBA you should refer to, BH6102F01011A below on these pages or BH6102F01012A following.

THE VOLTAGE FOR PARTS IN HOT CIRCUIT IS MEASURED USING HOT GND AS A COMMON TERMINAL.

CAUTION

FOR CONTINUED PROT REPLACE ONLY WITH T



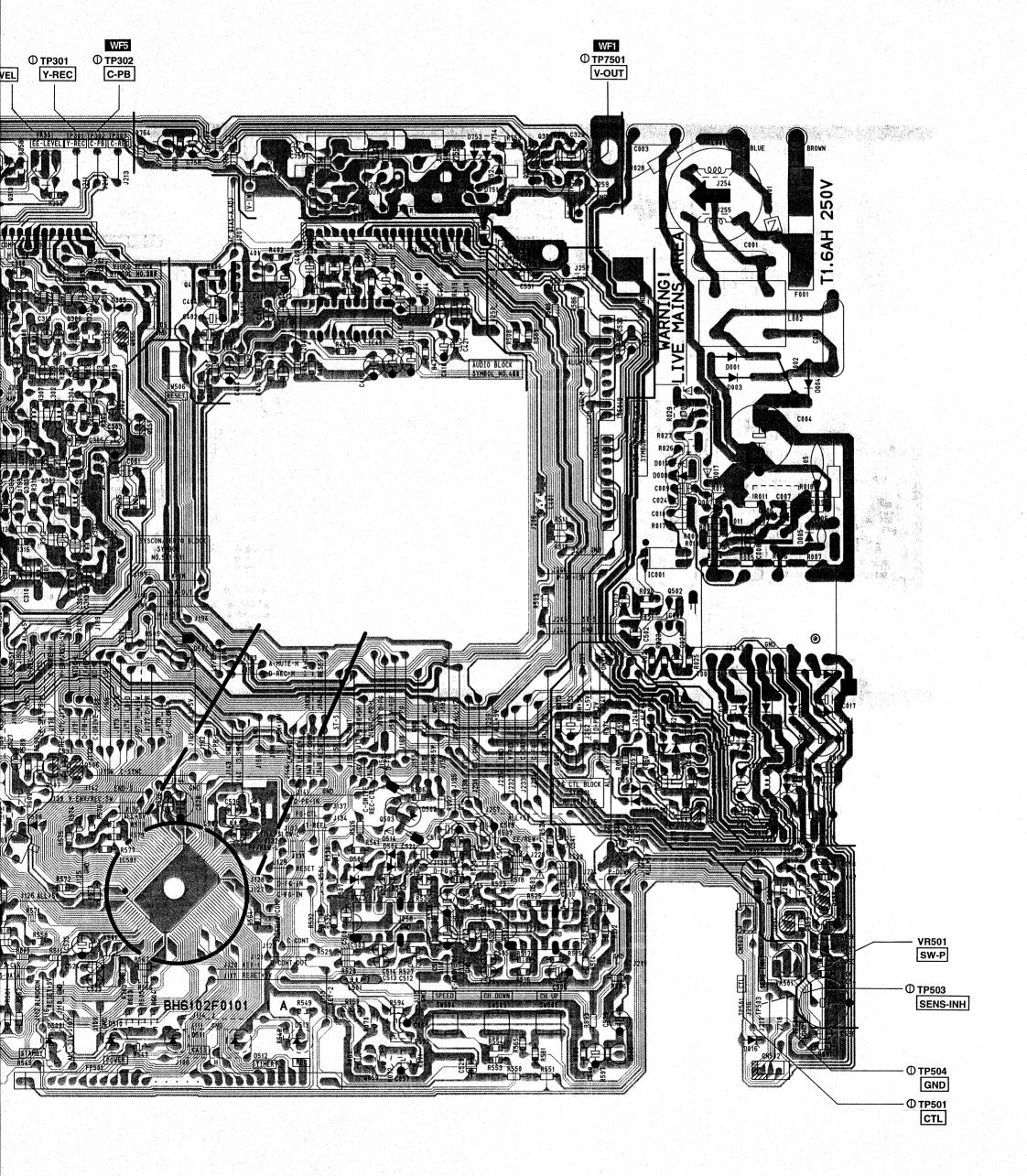
CUIT IS MEASURED USING

FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE FUSE.

CAUTION!

Fixed or auto voltage power supply circuit is used in this unit.

If Main Fuse (F01) is blown, check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.



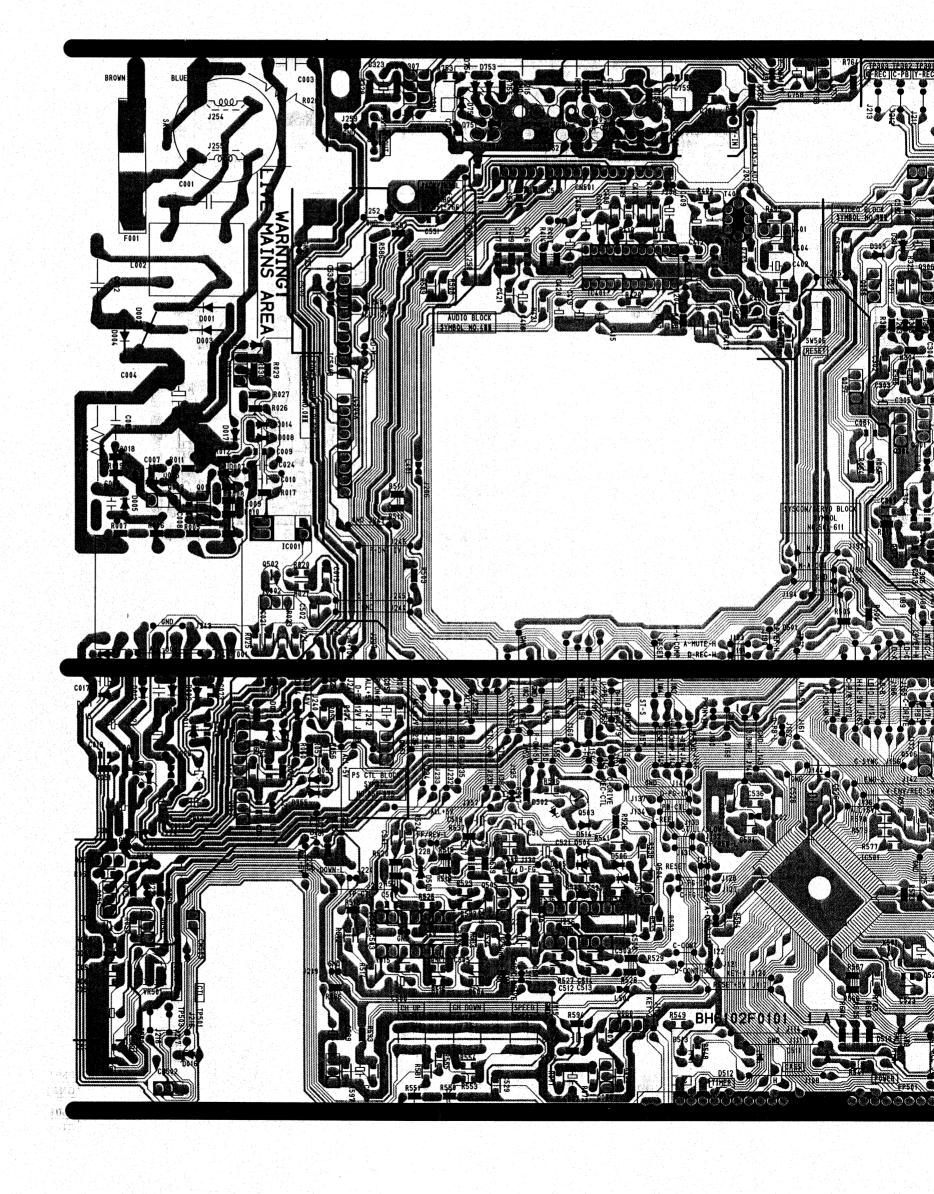
Main CBA Bottom View (CBA NO.: BH6102F01011A)

NOTE:

The models covered by this manual employ two exchangeable Main CBAs which have the same parts but have patterns the are slightly different. (One of these two CBAs was provided to improve the production efficiency.) These CBAs can be identified by their CBA numbers that are screened on the lower left-hand conner of the top side. This number reads BH6102F0101 on the bottom line. Screened on top of this line is 1A or 2A, the last segment of the CBA number. when servicing, confirm this number of your unit to see which CBA you should refer to, BH6102F01011A below on these pages or BH6102F01012A following.

NOTE:
THE VOLTAGE FOR PARTS IN HOT CIRCUIT IS MEASURED USING HOT GND AS A COMMON TERMINAL.

CAUTION FOR CONTINUED PROTEC REPLACE ONLY WITH THE



CIRCUIT IS MEASURED USING

CAUTION

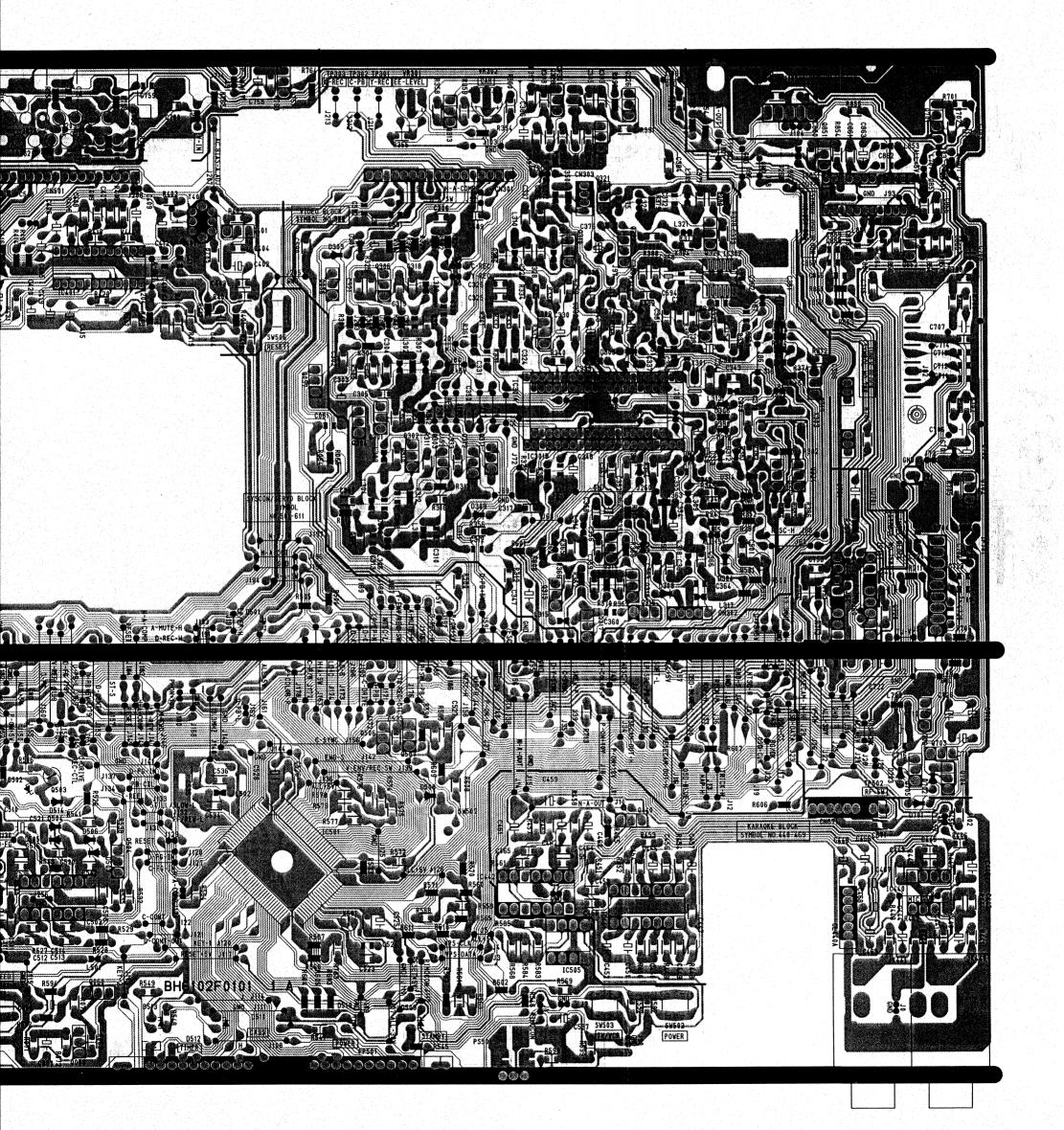
FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE FUSE.

CAUTION!

Fixed or auto voltage power supply circuit is used in this unit.

If Main Fuse (F01) is blown, check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply.

Otherwise it may cause some components in the power supply circuit to fail.



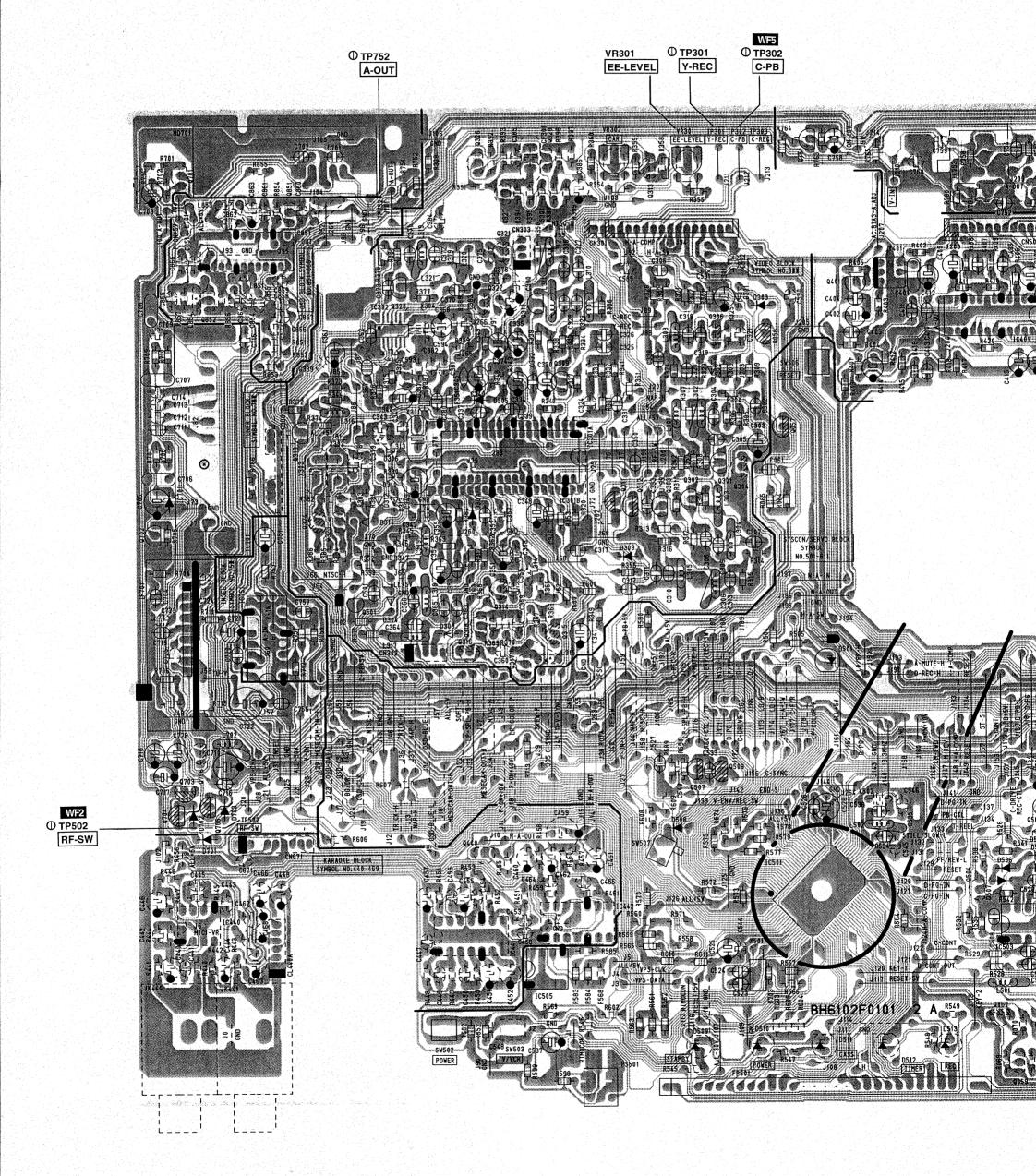
NOTE: THE VOLTAGE FOR PARTS IN HOT CIRCUIT IS MEASURED USING HOT GND AS A COMMON TERMINAL.

CAUTION

FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE FUSE.

CAUTION!

Fixed or auto volta If Main Fuse (F01) circuit are not defe Otherwise it may c



CTION AGAINST FIRE HAZARD, HE SAME TYPE FUSE.

CAUTION

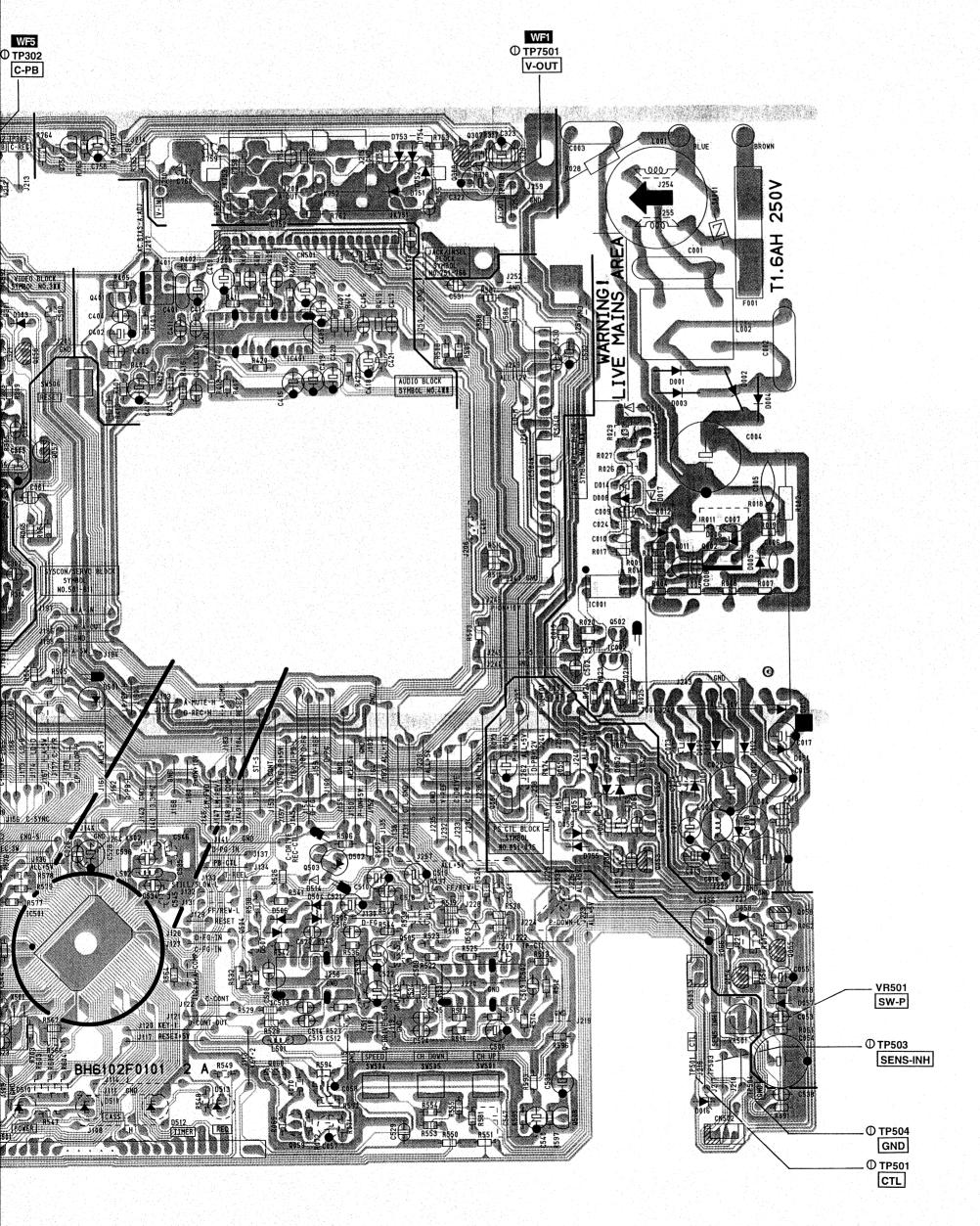
Fixed or auto voltage power supply circuit is used in this unit.

If Main Fuse (F01) is blown, check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply.

Otherwise it may cause some components in the power supply circuit to fail.

NOTE:

The models covered by this manual employ two exchangeable Main CBAs which have the same parts but have patterns the are slightly different. (One of these two CBAs was provided to improve the production efficiency.) These CBAs can be identified by their CBA numbers that are screened on the lower left-hand connected of the top side. This number reads BH6102F0101 on the bottom line. Screened on top of this line is 1A or 2A, the last segment of the CBA number, when servicing confirm this number of your unit to see which CBA you should refer BH6102F01012A below on these pages or BH6102F01011A following.



Main CBA Bottom View (CBA NO.: BH6102F01012A)

NOTE:

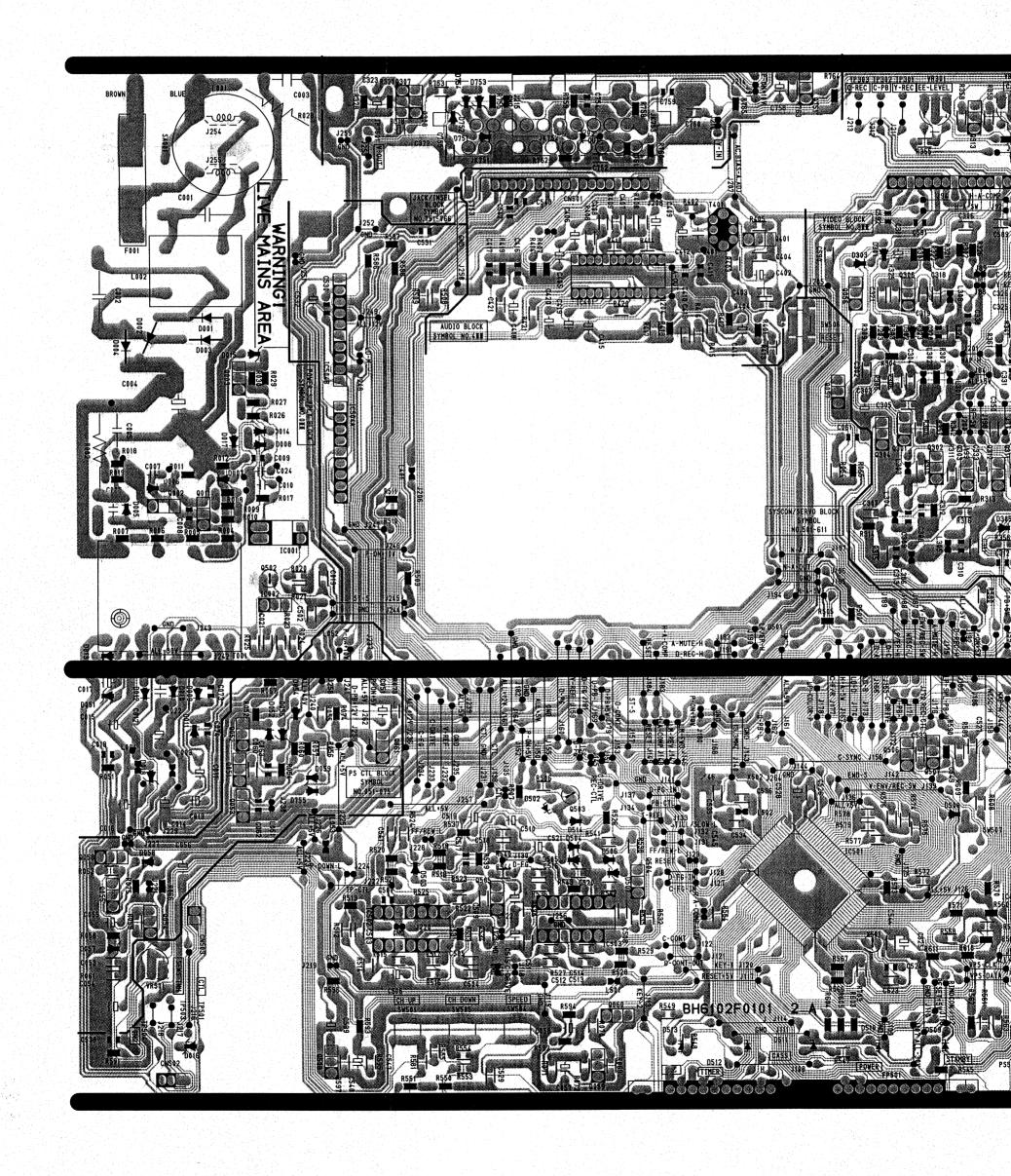
The models covered by this manual employ two exchangeable Main CBAs which have the same parts but have patterns the are slightly different. (One of these two CBAs was provided to improve the production efficiency.) These CBAs can be identified by their CBA numbers that are screened on the lower left-hand conner of the top side. This number reads BH6102F0101 on the bottom line. Screened on top of this line is 1A or 2A, the last segment of the CBA number. when servicing, confirm this number of your unit to see which CBA you should refer to, BH6102F01012A below on these pages or BH6102F01011A following.

NOTE: THE VOLTAGE FOR PARTS IN HOT CIRCUIT IS MEASURED USING HOT GND AS A COMMON TERMINAL.

CAUTION

FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE FUSE.

CAUTION! Fixed or auto If Main Fuse (circuit are not Otherwise it n



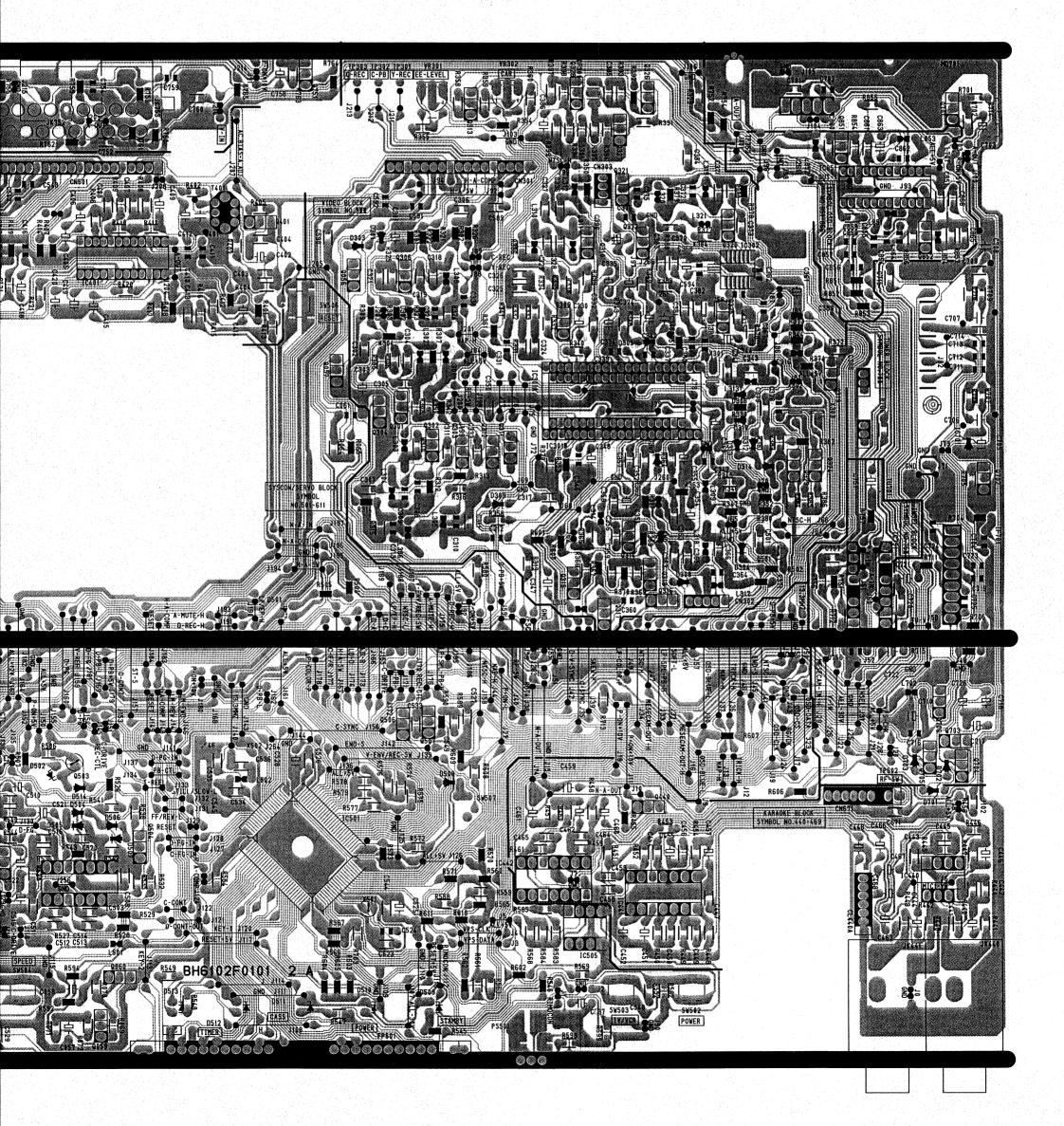
wo exchangeable Main CBAs which e slightly different. (One of these two ion efficiency.) These CBAs can be sened on the lower left-hand conner for 101 on the bottom line. Screened of the CBA number. when servicing, which CBA you should refer to, BH6102F01011A following.

MEASURED

CAUTION

FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE FUSE.

CAUTION!Fixed or auto voltage power supply circuit is used in this unit. If Main Fuse (F01) is blown, check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.



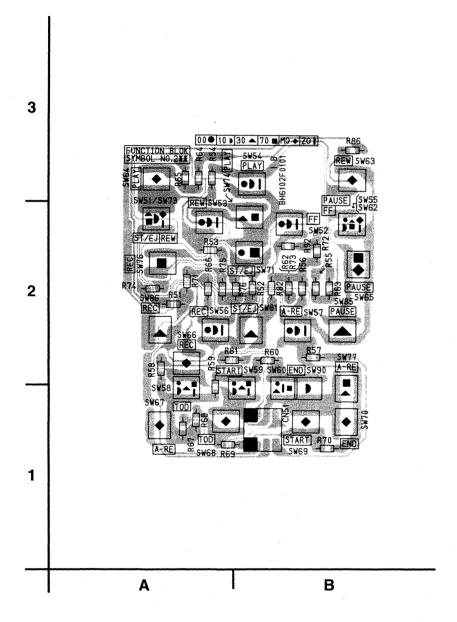
Healt got ARO men

Principal Book (Berling & Ard)

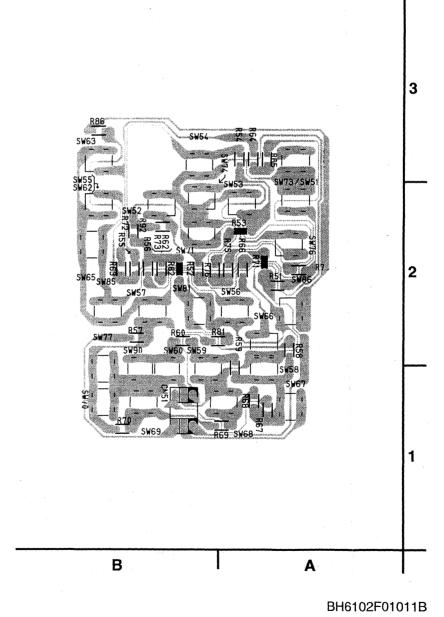
Function CBA Top View (CBA NO. : BH6102F01011B)

NOTE:

The models covered by this manual employ two exchangeable Function CBAs which have the same parts but have patterns the are slightly different. (One of these two CBAs was provided to improve the production efficiency.) These CBAs can be identified by their CBA numbers that are screened on the lower left-hand conner of the top side. This number reads BH6102F0101 on the bottom line. Screened on top of this line is 1B or 2B, the last segment of the CBA number. when servicing, confirm this number of your unit to see which CBA you should refer to, BH6102F01011B below on these pages or BH6102F01012B following.



Function CBA Bottom View (CBA NO.: BH6102F01011B)

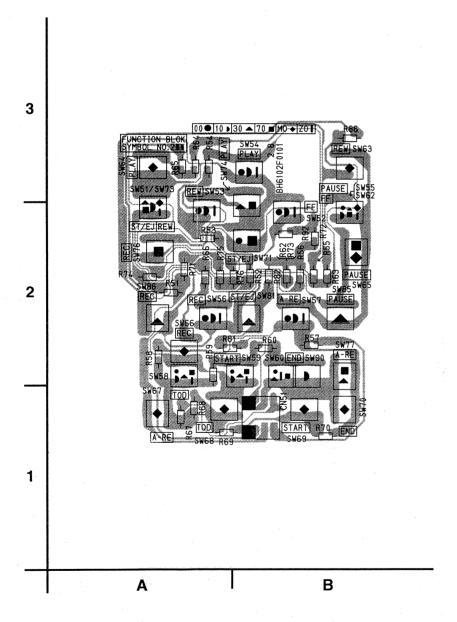


1-8-34

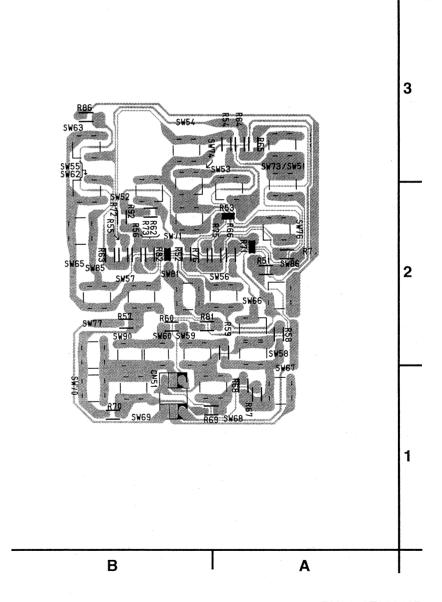
Function CBA Top View (CBA NO.: BH6102F01012B)

NOTE:

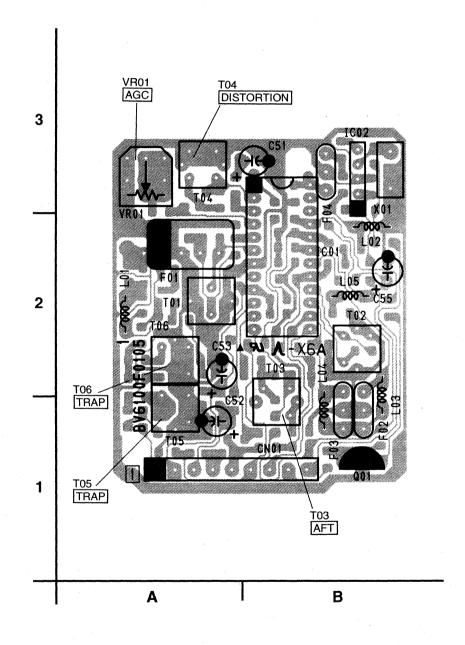
The models covered by this manual employ two exchangeable Function CBAs which have the same parts but have patterns the are slightly different. (One of these two CBAs was provided to improve the production efficiency.) These CBAs can be identified by their CBA numbers that are screened on the lower left-hand conner of the top side. This number reads BH6102F0101 on the bottom line. Screened on top of this line is 1B or 2B, the last segment of the CBA number. when servicing, confirm this number of your unit to see which CBA you should refer to, BH6102F01012B below on these pages or BH6102F01011B following.

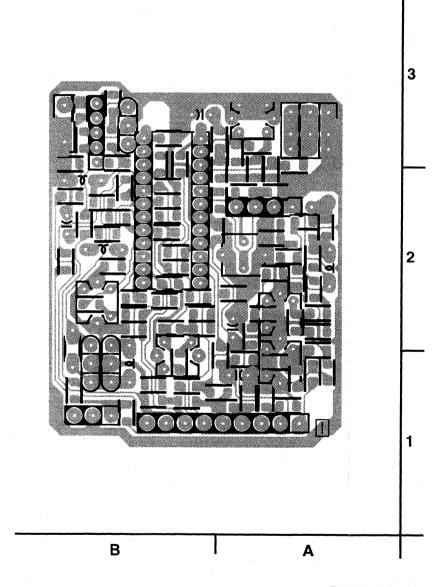


Function CBA Bottom View (CBA NO.: BH6102F01012B)



BH6102F01012B



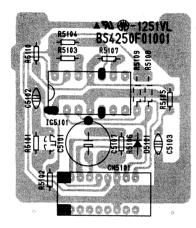


BV6100F01051

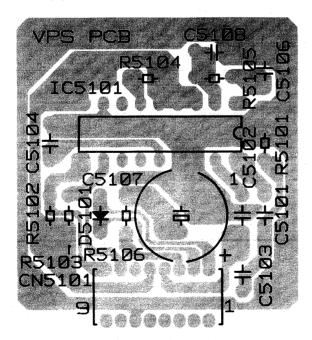
NOTE:

The models covered by this manual employ two exchangeable VPS CBAs but parts and patterns are quite different. (One of these two CBAs was provided to improve the production efficiency.) These CBAs can be identified by their CBA numbers that are screened on the upper right-hand conner of the top side. this number reads BS4250F01001 on the top line. when servicing, confirm this number of your unit to see which CBA you should refer. If the CBA number is not showing on the top line. This is identified as BK8036F01A01.

VPS Top View (B, D) CBA NO. : BS4250F01001



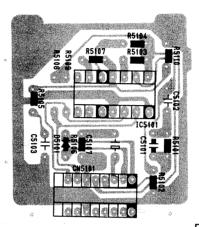
VPS Top View (B, D) CBA NO.: BK8036F01A01



Comparison Chart of Models and Marks

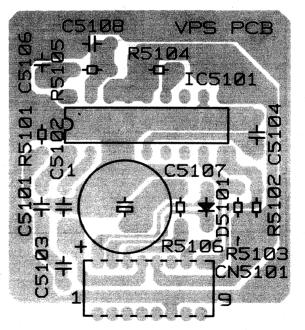
MODEL	MARK	MODEL	MARK
13A-109	Α	13A-509	С
13A-129	В	13A-529	D

VPS Bottom View (B, D) CBA NO. : BS4250F01001



BS4250F01001

VPS Bottom View (B, D) CBA NO. : BK8036F01A01

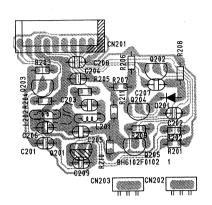


BK8036F01A01

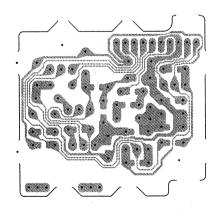
CSV CBA Top View (C, D)

Comparison Chart of Models and Marks

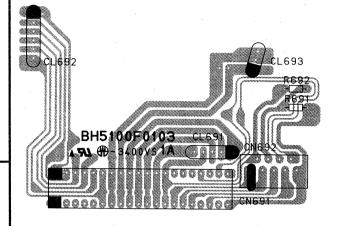
MODEL	MARK	MODEL	MARK
13A-109	Α	13A-509	С
13A-129	В	13A-529	D



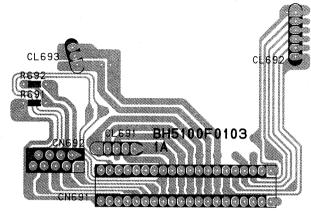
CSV CBA Bottom View (C, D)



Joint CBA Top View



Joint CBA Bottom View



Mode Sw CBA Top View

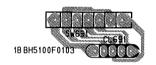


3

2

1

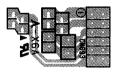
BH5100F0103-1A Mode Sw CBA Bottom View



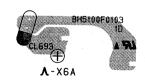
Ace Head CBA Top View



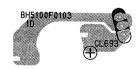
Ace Head CBA Bottom View



Motor CBA Top View



Motor CBA Bottom View



С

BH5100F0103-1D

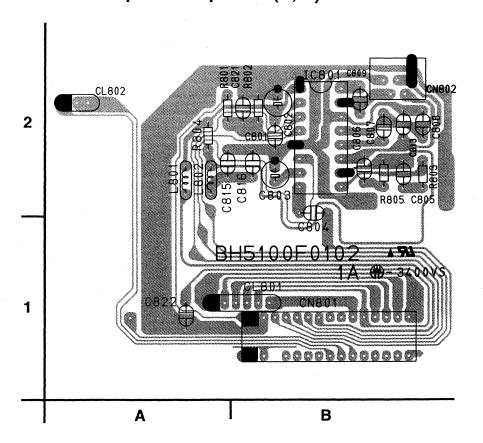
D

BH5100F0103-1C

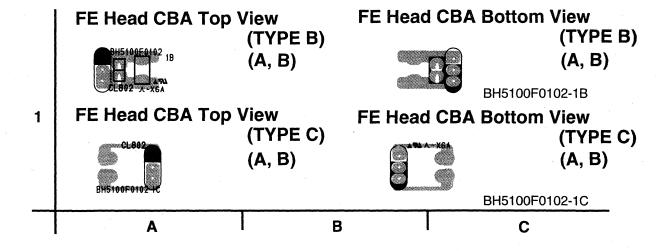
BH5100F0103-1B

В

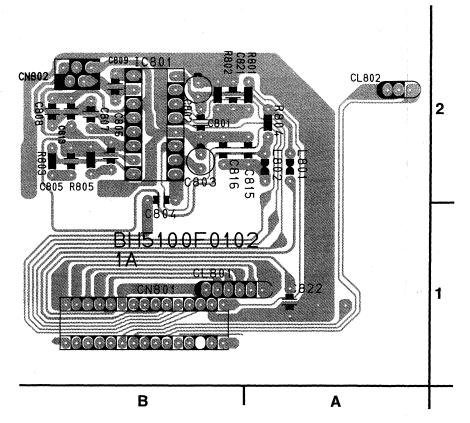
Head Amp CBA Top View (A, B)



Note: There are two types of FE head CBAs and three types of FE heads. Combinations are made clear in Deck electrical parts list. As long as the combination is correct, all the three types of FE heads are interchangeable.



Head Amp CBA Bottom View (A, B)



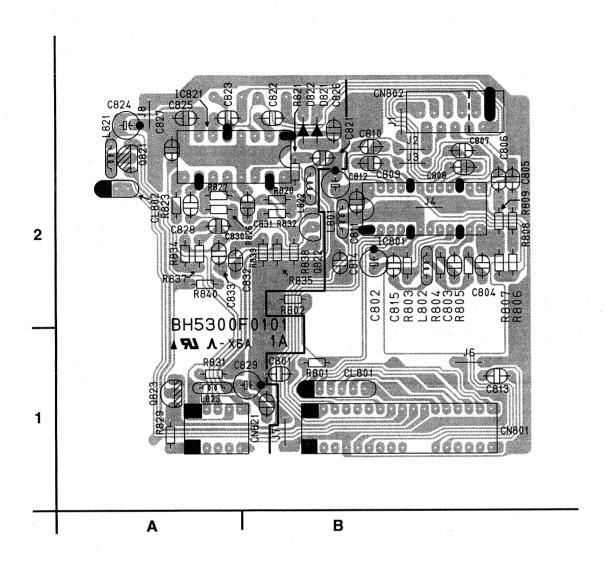
BH5100F0102-1A

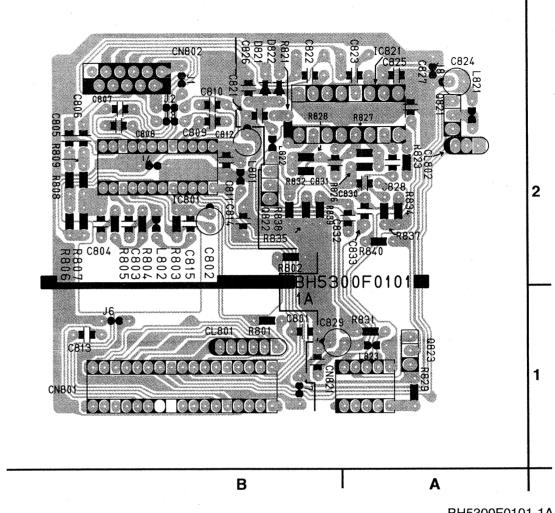
Comparison Chart of Models and Marks

MODEL	MARK	MODEL	MARK	
13A-109	Α	13A-509	С	
13A-129	В	13A-529	D	

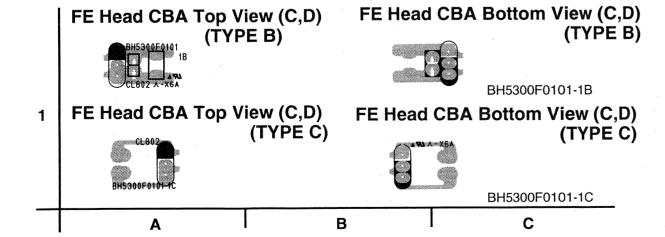
Head Amp CBA Top View (C,D)

Head Amp CBA Bottom View (C,D)





BH5300F0101-1A

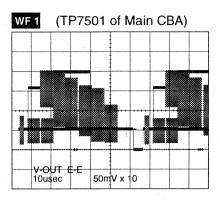


Note: There are two types of FE head CBAs and three types of FE heads. Combinations are made clear in Deck electrical parts list. As long as the combination is correct, all the three types of FE heads are interchangeable. The digit "3" is abbreviated in a reference number screened on CBAs. For example, CL802 on CBA is in fact CL3802.

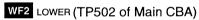
Comparison Chart of Models and Marks

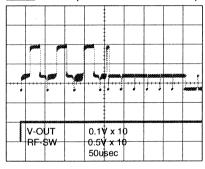
MODEL	MARK	MODEL	MARK
13A-109	Α	13A-509	С
13A-129	В	13A-529	D

WAVEFORMS



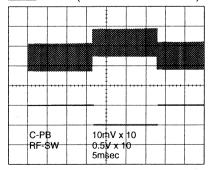
WF1 UPPER (TP7501 of Main CBA)



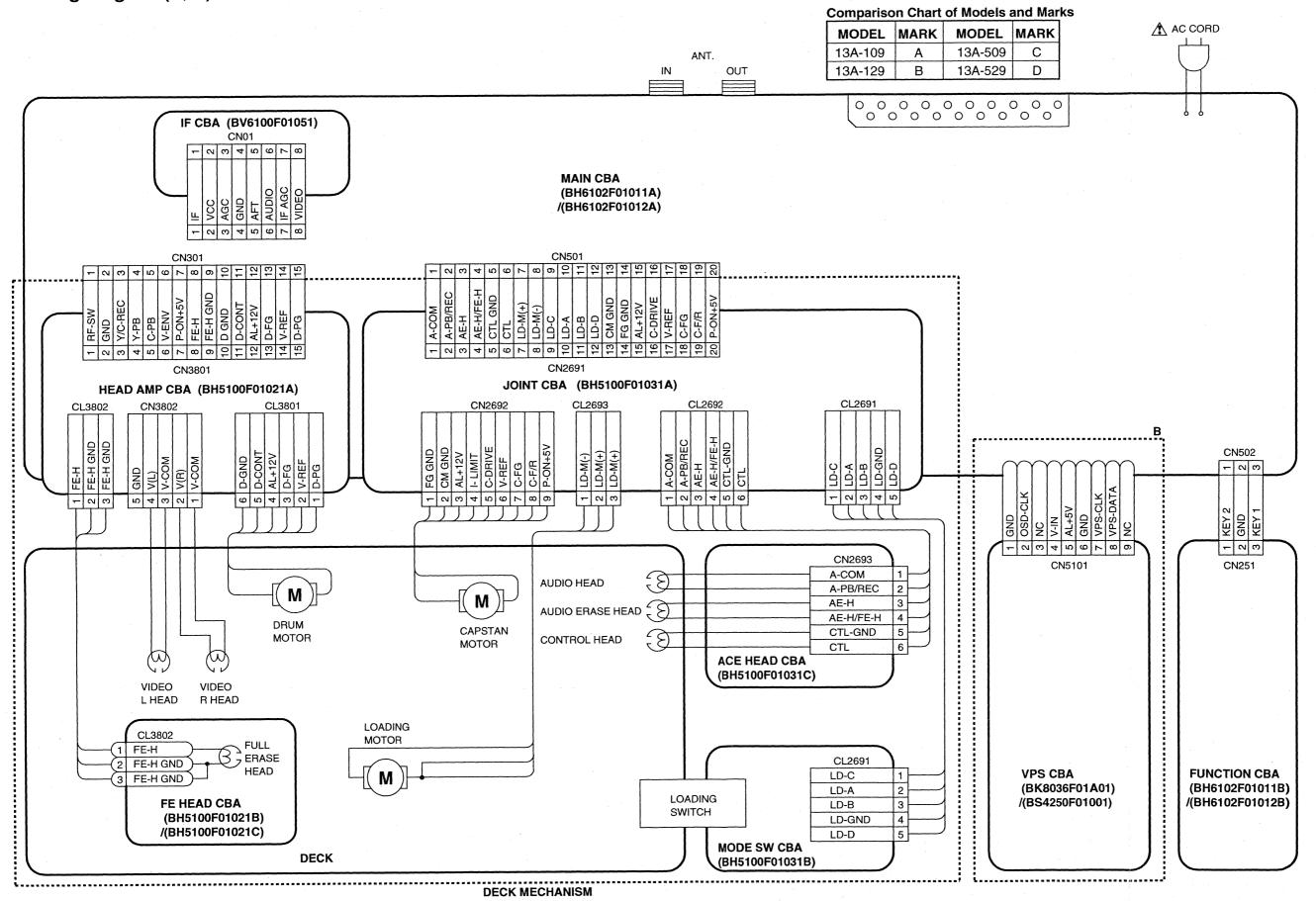


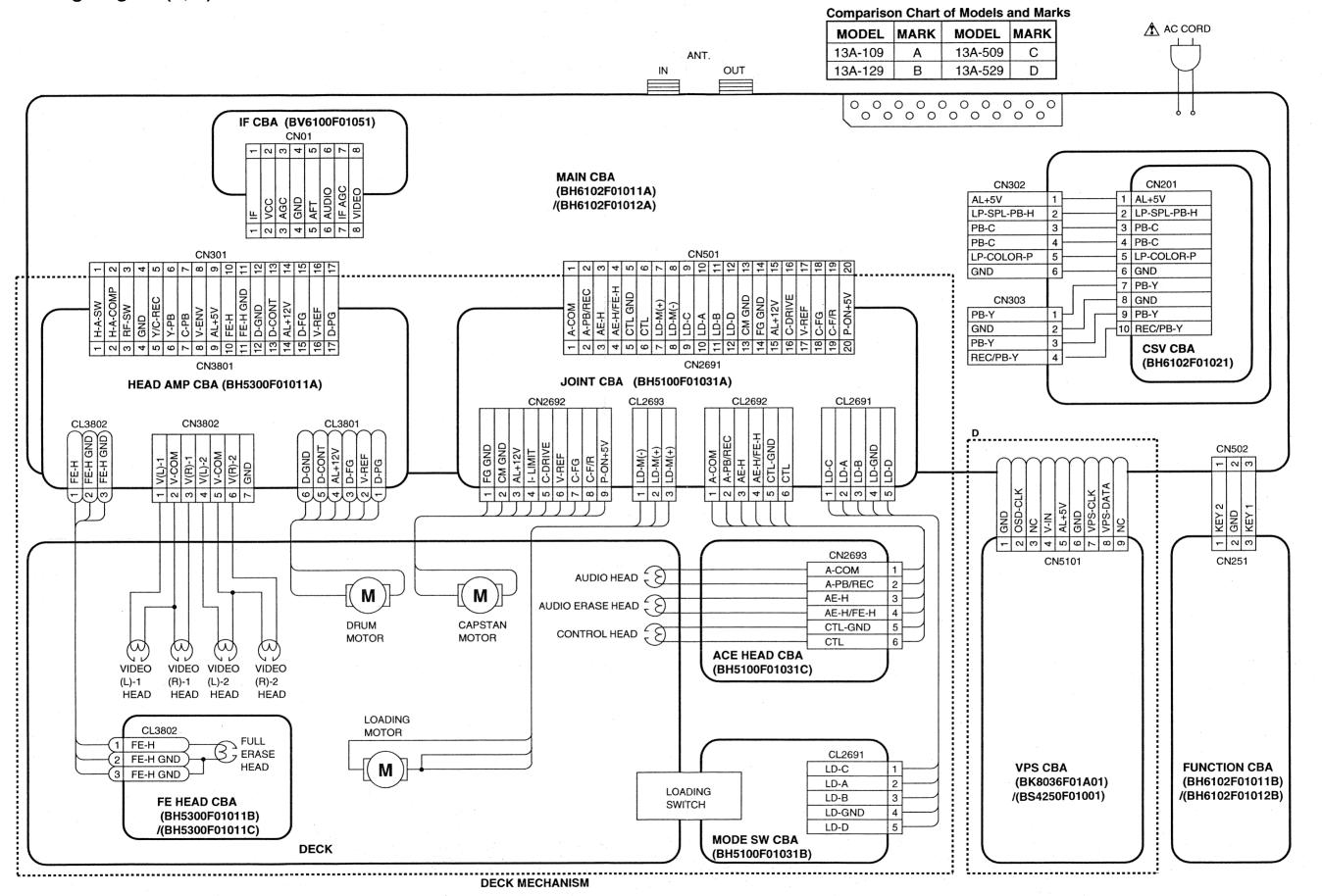
WF5 UPPER (TP302 of Main CBA)

WF2 LOWER (TP502 of Main CBA)



WIRING DIAGRAMS





SYSTEM CONTROL TIMING CHARTS

Mode SW: LD-A/LD-B/LD-C/LD-D

	LD-SW						
LD-A	LD-B	LD-C	LD-D	Symbol			
L	Н	Н	Н	EJ			
Н	Н	Н	Н	CL			
L	L	Н	Н	SB			
Н	L	Н	Н	TL			
Н	L	L	Н	FB			
Н	Н	L	Н	SF			
Н	Н	L	L	AU			
Н	Н	Н	L	AL			
Н	L	Н	L	SS			
Н	Н	Н	Н	GC			
L	Н	Н	L	RS			

Eject REW Reel Stop (B) Brake Cancel

FF / REW, Stop (A)

Play / REC (FS Pause 2 Head Still) 4 Head Slow / Still Capstan Reversal RS (REV Reel)

-- Note:

EJ --- RS: Loading FWD (LM-FWD "H", LM-REW "L")

RS ---- EJ: Loading REV (LM-FWD "L", LM-REW "H")

Stop (A) = Loading

Stop (B) = Unloading

Note:

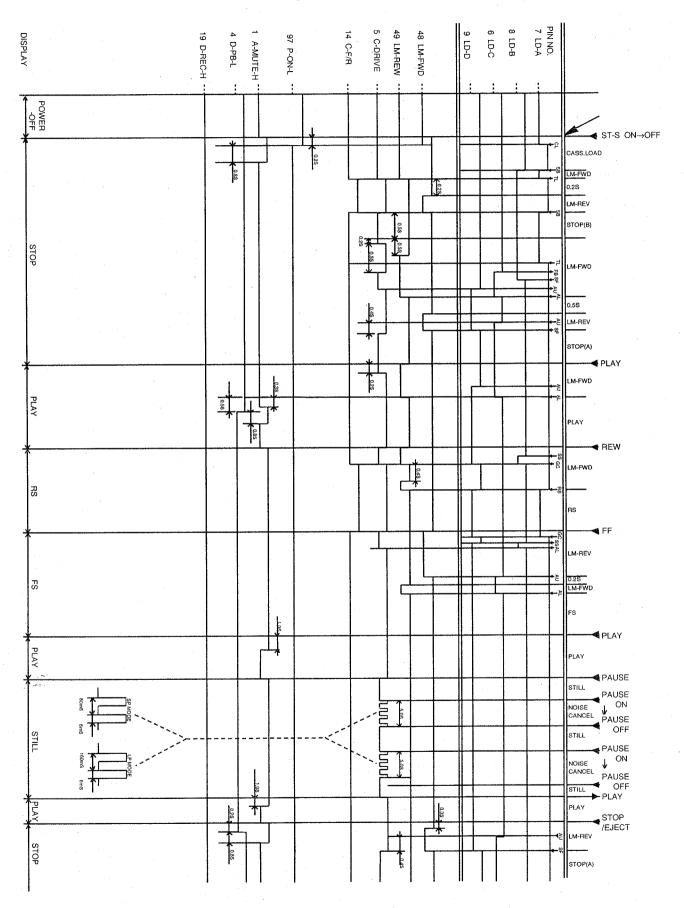
Symbol	Loading Status
EJ	Eject
CL	Eject ~ Loading Completion
SB	REW ~ Stop(B)
TL	Stop(B) ~ Brake Cancel
FB	Brake Cancel ~ FF / REW
SF	FF / REW ~ Stop(A)
AU	Stop(A) ~ Play / REC
AL	Play / REC ~ 4 Head Still / Slow
SS	4 Head Still / Slow ~ Capstan Reversal
GC	Capstan Reversal ~ REW Reel
RS	RS (REV)

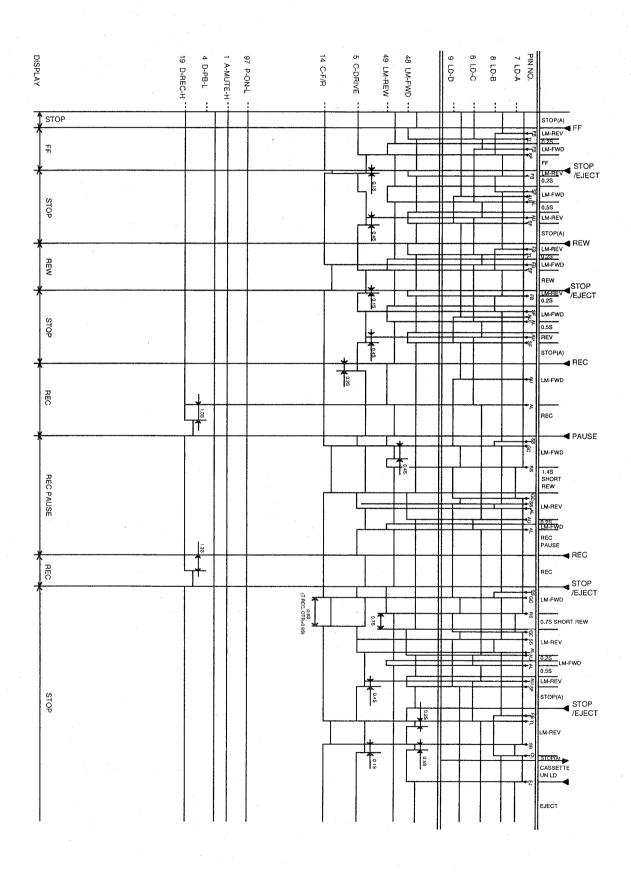
Loading Motor/Control

LM-FWD	LM-REW	Description
Н	Н	Stop
Н	L	Loading Forward Rotation
L	Н	Loading Reverse Rotation

Capstan Motor/Control

C-DRIVE	C-F/R	Description
L	L/H	Stop, The brake is not applied.
H or HI-Z	L	Capstan, Reel Forward Rotation
H or HI-Z	Н	Capstan, Reel Reverse Rotation

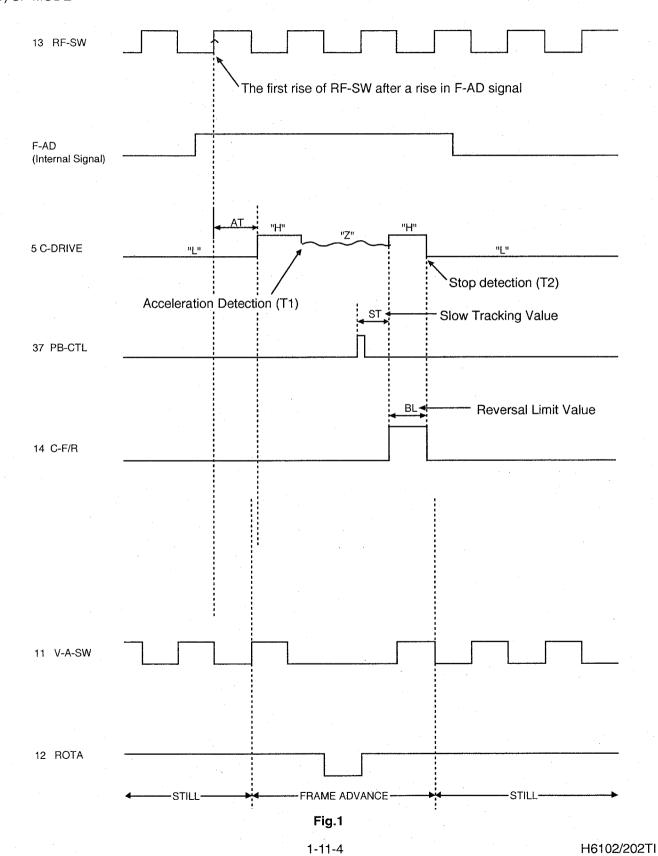


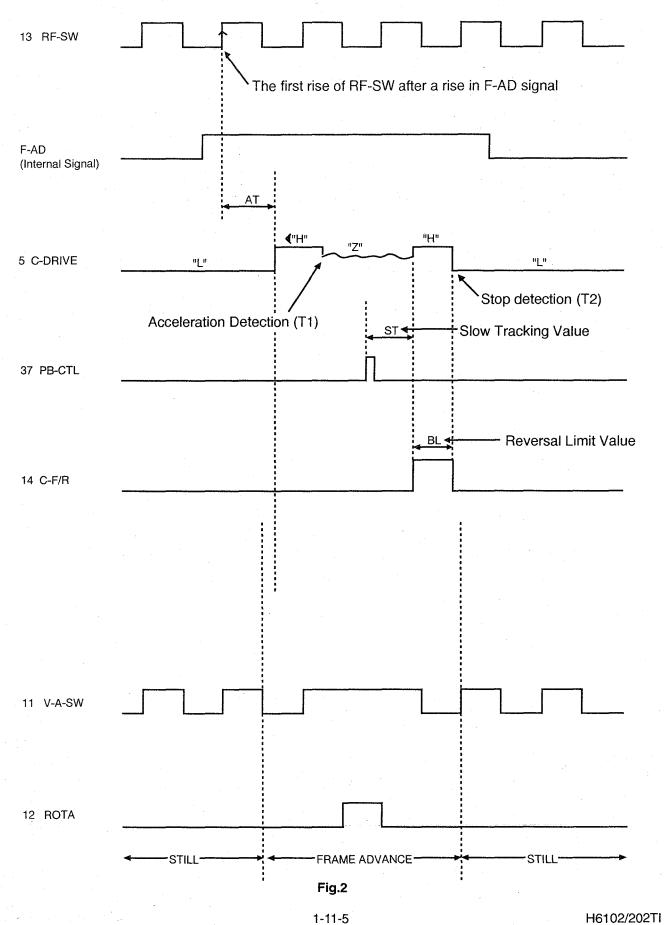


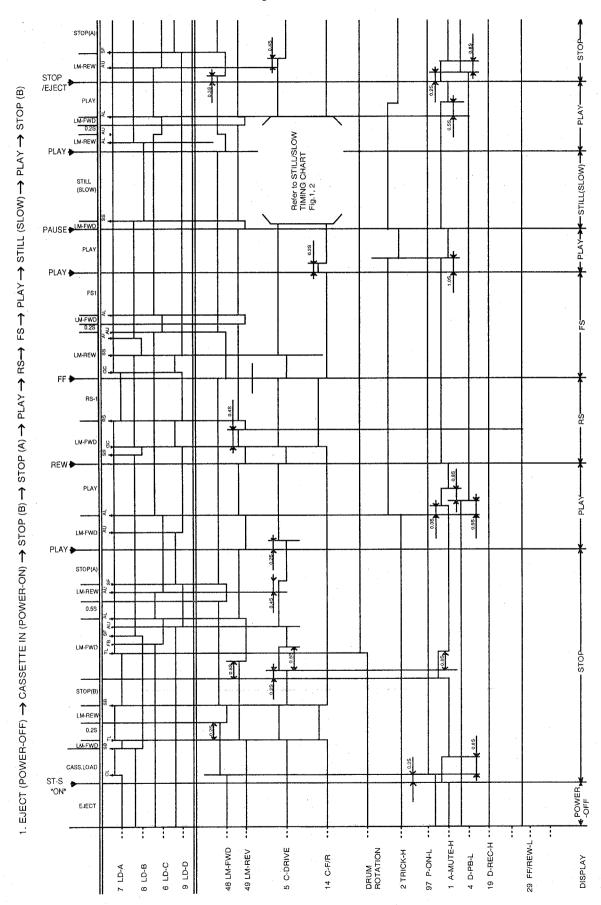
Still/Slow Control

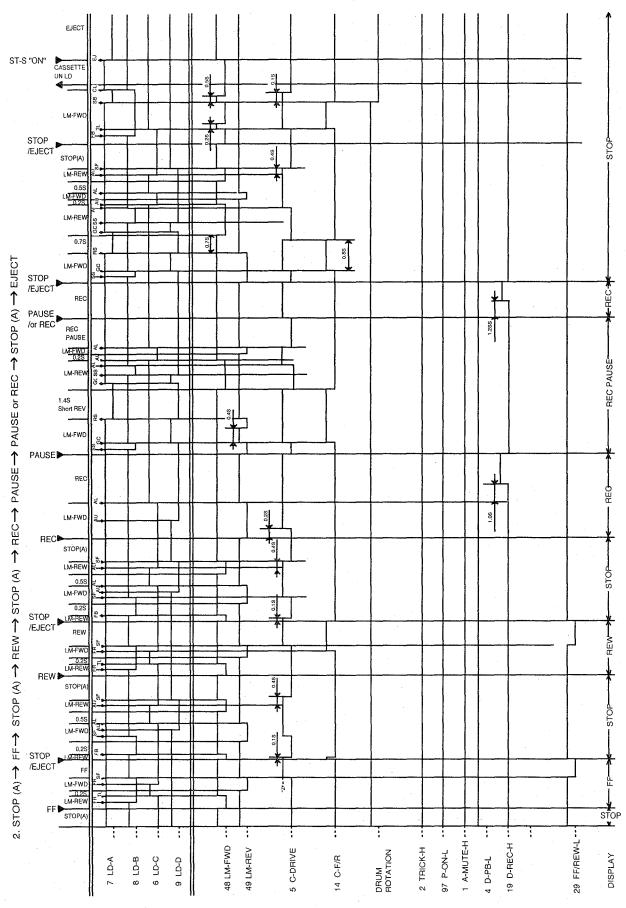
Frame Advance Timing Chart

1) SP MODE









IC PIN FUNCTION DESCRIPTION

IC501 (SERVO/SYSTEM CONTROLIC)

"H" \geq 4.5V, "L" \leq 1.0V

Comparision Chart of Models and Marks

MODEL	MARK
13A-109	A
13A-129	В
13A-509	С
13A-529	D

Pin No.	Mark	IN/ OUT	Signal Name	Function	Active Level
1		OUT	A- MUTE- H	AUDIO Mute Signal Output	Н
2	A,B	OUT	LP- SPL- PB-H	Special Effects Playback LP mode = " H " Output	Н
	C,D	OUT	TRICK- H	Special Play back="H" Output	Н
3		OUT	REC- CTL	REC-CTL	H/L
4		OUT	D-PB-L	D-PB Output	L
5		OUT	C- DRIVE	Capstan Drive Output	H/ Hi-Z
6		IN	LD-C	Loading SW C Input	H/L
7		IN	LD-A	Loading SW A Input	H/L
8		IN	LD-B	Loading SW B Input	H/L
9		IN	LD-D	Loading SW D Input	H/L
10	A,B	-	N.U.	Not Used	-
	C,D	OUT	SKEW- CORRE CTION- P	Not Used	PULSE
11	A,B	-	N.U.	Not Used	-
	C,D	OUT	H-A- SW	Head Amp Select Signal	H/L
12		OUT	ROTA	ROTA Output	H/L
13		OUT	RF-SW	RF-SW Output	H/L
14		OUT	C-F/R	Capstan F/R Output	H/L
15	A,B		N.U.	Not Used	•

Pin	Mark	IN/	Signal	Active		
No.	IVIAI K	OUT	Name	Function	Level	
	C,D	OUT	LP- COLOR- CORRE CTION- P	Not Used	PULSE	
16		-	N.U.	Not Used(GND)	-	
17		OUT	D-V /SYNC	Dummy V-Sync Output	H/ Hi-Z	
18		OUT	SD-L	Not Used(GND)	L	
19		OUT	D-REC- H	D-REC Output	H	
20		OUT	LP-H	LP-H Output	H	
21		OUT	NTSC- L	Not Used	L .	
22		IN	AFC	Tuner AFC Voltage Input	A/D	
23		IN	V-ENV/ REC- SW	Video ENV./ REC-SAF-SW Input	A/D	
24		IN	END-S	Tape END Position Detect	A/D	
25		IN	ST-S	Tape Start Position Detect	A/D	
26		IN	DEW	Not Used(GND)	A/D	
27		IN	KEY IN-2	A/D Key Data Input	A/D	
28			AVREF	AVREF A/D Converter Standard Voltage Input (ALL 5V)	-	
29		-	AVss	AVss A/D for Converter Power (GND)	-	
30		-	AVod	AV _{DD} A/D for Converter Power (Back Up 5V)	_	
31		IN	KEY IN-1	A/D Key Data Input	A/D	
32		IN	PG- DELAY/ TEST	PG-DELAY	A/D	
33		-	N.U.	Not Used	-	
34		IN	T-REEL	Take Up Reel Rotation Signal Input	PULSE	
35	-	IN	P- DOWN- L	Power Down Detection Input	L	

Pin No.	Mark	IN/ OUT	Signal Name	Function	Active Level
36		IN	C- SYNC	C-SYNC Input	PULSE
37		IN	PB-CTL	PB-CTL Input	PULSE
38		IN	D-PG	D-PG Input	PULSE
39		-	MP	GND	-
40		IN	RESET	System Reset	L
41		-	Vss	Vss (GND)	-
42		-	XTAL	Main Clock 13.300857MHz (IN)	-
43		-	EXTAL	Main Clock	
44		IN	D-FG	D-FG Input	PULSE
45	-	IN	C-FG	C-FG Input	PULSE
46	A,B	-	N.U.	Not Used	-
	C,D	OUT	STILL /SLOW- L	STILL/SLOW "L" Output	L
47	A,B		N.U.	Not Used	-
	C,D	OUT	FF /REW-L	FF/REW="L"	L
48		OUT	LM- FWD	Loading Motor FWD Output	Н
49		OUT	LM- REV	Loading Motor REV Output	Ή
50		OUT	C- CONT	Capstan Control	PWM
51		OUT	D- CONT	Drum Control	PWM
52		-	N.U.	Not Used(GND)	-
53	A,B	-	N.U.	Not Used(GND)	-
	C,D	·IN	H-A- COMP	Head Amp Comparator Input	H/L
54		OUT	G1	Display Digit Output	Н
55		OUT	G2	Display Digit Output	Н
56		OUT	G3	Display Digit Output	Н
57		OUT	G4	Display Digit Output	H
58		OUT	G5	Display Digit Output	Н
59		OUT	G6	Display Digit Output	Н
60		OUT	G7	Display Digit Output	Н

Pin No.	Mark	IN/ OUT	Signal Name	Function	Active Level
61		OUT	G8	Display Digit Output	Н
62		OUT	G9	Display Digit Output	Н
63		OUT	G10	Display Digit Output	Н
64		OUT	Α	Display Segment Output	Н
65		OUT	В	Display Segment Output	Н
66		OUT	С	Display Segment Output	Н
67		OUT	D	Display Segment Output	Н
68		OUT	E	Display Segment Output	Н
69		OUT	F	Display Segment Output	Н
70		OUT	G	Display Segment Output	Н
71		OUT	Н	Display Segment Output	Н
72		OUT	1	Display Segment Output	Н
73		OUT	J	Display Segment Output	Н
74		-	N.U.	Not Used	-
75	A,B	-	N.U.	Not Used	-
	C,D	OUT	NTSC TRICK- H	NTSC Special Play back="H" Output	H
76	A,B	-	N.U.	Not Used	-
	C,D	OUT	LP- SPL- PB-H	Special Effects Playback LP= " H " Output	-
77		OUT	NAP-H	Not Used	Н
78		_	-28V	-28V	-
79			N.U.	Not Used(+5V)	-
80		-	N.U.	Not Used(+5V)	-
81			N.U.	Not Used(+5V)	-
82		liN	MESEC AM-IN- H	Not Used H	
83		OUT	MESEC AM- OUT-H	Not Used H	
84		OUT	T-DAC	TUNING Voltage Control for PWM Output	PWM

Pin No.	Mark	IN/ OUT	Signal Name	Function	Active Level
85		IN	REMOCO N	Remocon Sensor Input	L
86		-	TEX	SUB CLOCK 32KHz (IN)	-
87		-	TX	SUB CLOCK 32KHz (OUT)	-
88		-	Vss	Vss(GND)	-
89		-	V _{DD}	V _{DD} (BACK UP 5V)	-
90		-	V _{PP}	GND(BACK UP 5V)	-
91	A,C	IN/ OUT	E2 PROM- DATA	MEMORY IC Control DATA	H/L
	B,D	IN/ OUT	VPS/E2 PROM- DATA	VPS IC/MEMORY IC Control DATA	H/L
92	A,C	OUT	E2 PROM- CLK	VPS IC/ MEMORY IC Control CLOCK	H/L
	B,D	IN/ OUT	VPS/E2 PROM- DATA	VPS IC/MEMORY IC Control CLOCK	H/L
93		OUT	D/I	Not Used	Н
94		OUT	VL	TUNER BAND Switching Output	L
95		OUT	VH	TUNER BAND Switching Output	L
96		OUT	U	TUNER BAND Switching Output	L
97		OUT	P-ON-L	P-ON Output	L
98		OUT	INSEL	Input Select	H/L
99	A,C	OUT	VPS- CHK	Not Used	Н
	B,D	OUT	VPS- CHK	VIDEO MUTE Signal Output	Н
100		OUT	NTSC- REC-H	Not Used	-

Notes:

Abbreviation for Active Level

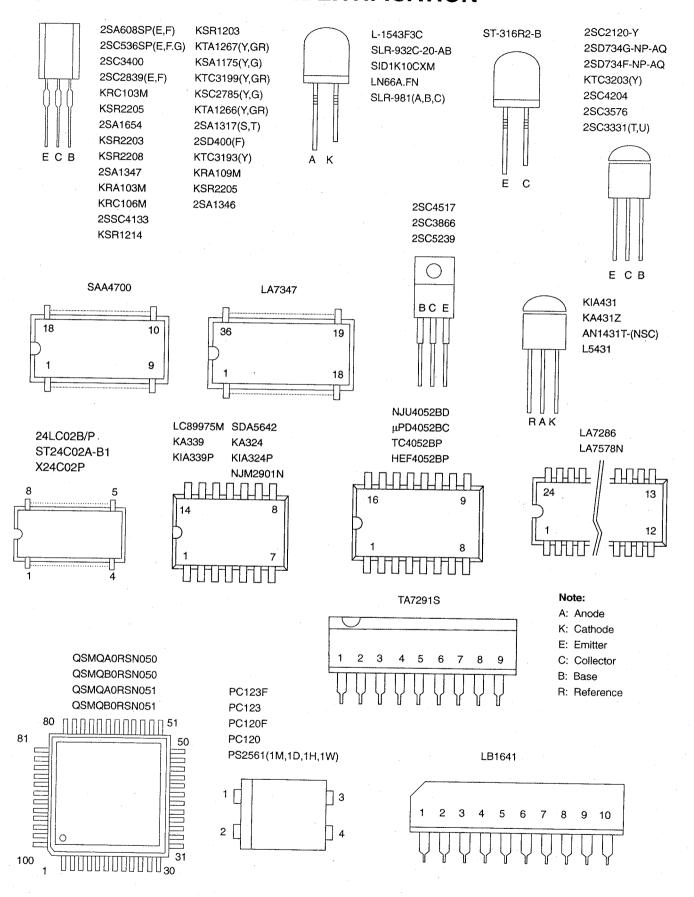
PWM – Pulse Wide Modulation,

A/D -- Analog - Digital Converter

1-12-3

H6102PIN

LEAD IDENTIFICATION



DECK MECHANISM SECTION

VIDEO CASSETTE RECORDER

13A-109 / 13A-129 / 13A-509 / 13A-529

Sec. 2: Deck Mechanism Section

- Standard Maintenance
- Alignment for Mechanism
- Disassembly/Assembly of Mechanism
- Front Loading Assembly
- Alignment Procedures of Mechanism

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Service Fixtures and Tools	2-2-1
Mechanical Alignment Procedures	2-2-1
Disassembly / Assembly Procedures of Deck Mechanism	2-4-1
Front Loading Assembly	2-4-9
Alignment Procedures of Mechanism	2-4-12

STANDARD MAINTENANCE

Service Schedule of Components

H: Hours

O: Check

: Change

Deck		Periodic Service Schedule			
Ref. No.	Part Name	1,000 H	2,000 H	3,000 H	4,000 H
B2	Cylinder Assembly	0	•	0	•
В3	Loading Motor			•.	
B6	Pinch Roller Arm Assembly		•		•
B8	Pulley Assembly		•		. •
B21	Loading Belt		•		•
B27	Band Brake Assembly		•		•
B28	Main Brake S Assembly		•		•
B29	Main Brake T Assembly		•		•
B30	T Brake Arm Assembly		•		•
B31	ACE Head Assembly			•	
B32, B339	Reel Base Assembly			•	
B37	Capstan Motor		•		•
B52	Capstan Belt		•	·	•
B54	Ground Brush Assembly			•	
B73	FE Head CBA (See Deck Electrical Parts List)				
B132	Clutch Assembly		•		•
B133	Arm Idler Assembly		•		•

Notes:

- 1. Clean all parts for the tape transport (Upper Drum with Video Head / Pinch Roller / Audio Control Head / Full Erase Head) using 90% Isopropyl Alcohol.
- 2. After cleaning the parts, do all DECK ADJUSTMENTS.
- 3. For the reference numbers listed above, refer to Deck Exploded Views.

Cleaning

Cleaning of Video Head

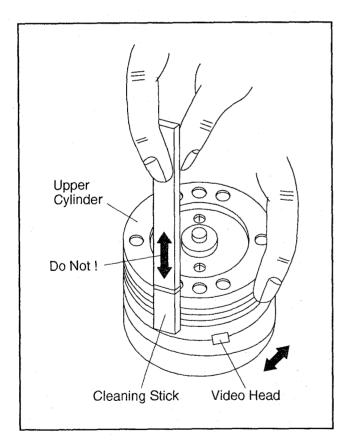
Clean the head with a head cleaning stick or chamois skin.

Procedure

- 1. Remove the top cabinet.
- 2. Put on a glove (thin type) to avoid touching the upper and lower drum with your bare hand.
- 3. Put a few drops of 90% Isopropyl alcohol on the head cleaning stick or on the chamois skin and, by slightly pressing it against the head tip, turn the upper drum to the right and to the left.

Notes:

- 1. The video head surface is made of very hard material, but since it is very thin, avoid cleaning it vertically.
- 2. Wait for the cleaned part to dry thoroughly before operating the unit.
- 3. Do not reuse a stained head cleaning stick or a stained chamois skin.



Cleaning of Audio Control Head

Clean the head with a cotton swab.

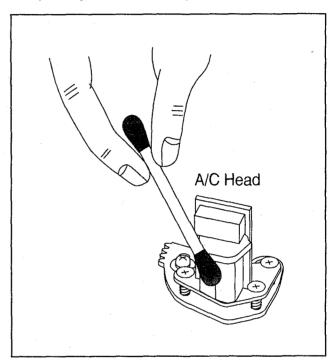
Procedure

- 1. Remove the top cabinet.
- Dip the cotton swab in 90% isopropyl alcohol and clean the audio control head. Be careful not to damage the upper drum and other tape running parts.

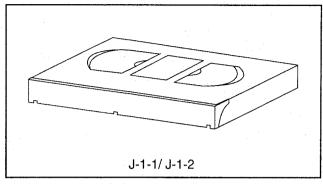
Notes:

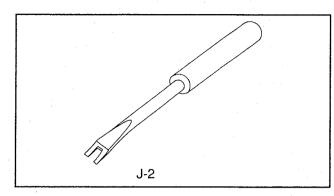
2-1-2

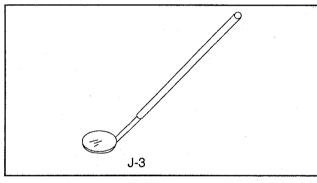
- 1. Avoid cleaning the audio control head vertically.
- 2. Wait for the cleaned part to dry thoroughly before operating the unit or damage may occur.

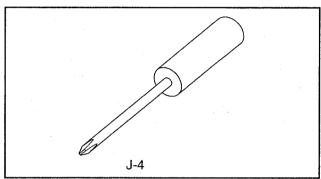


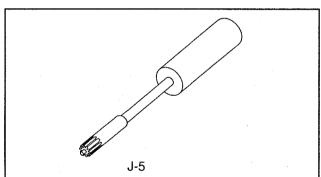
SERVICE FIXTURE AND TOOLS

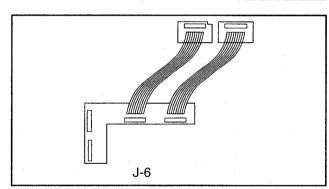












Ref. No.	Name	Part No.	Adjustment
J-1-1	Alignment Tape	FL6A	Electrical Adjustments
J-1-2	Alignment Tape	FL6N8 (1speed only) FL6NS8 (2speed only)	Azimuth and X Value Adjustment of Audio Control Head / Adjustment of Envelope Waveform
J-2	Special Driver, Small	FSJ-0006	Guide Roller
J-3	Mirror	FSJ-0004	Tape Transportation Check
J-4	Azimuth: Screwdriver	Available Locally	A/C Head Height
J-5	X Vaiu Adj. Screwdriver	FSJ-0007	X Value Adjustment
J-6	Deck Extention Cable	N1091XA	All Mechanical and Electrical Adjustments

Note:

Before starting any adjustment, take the Deck Assembly out of the cabinet and use J-6 to connect the Deck Assembly with the Main CBA.

2-2-1 U13FIX2P

MECHANICAL ALIGNMENT PROCEDURES

Explanation of alignment for the tape to correctly run starts on the next page. Refer to the information below on this page if a tape gets stuck, for example, in the mechanism due to some electrical trouble of the unit

Service Information

- **A.** Method for Manual Tape Loading/Unloading To load a cassette tape manually:
- 1. Disconnect the AC plug.
- 2. Remove the Top Cover.
- 3. Insert a cassette tape. Though the tape will not be automatically loaded, make sure that the cassette tape is all the way in at the inlet of the Cassette Holder. To confirm this, lightly push the cassette tape further in and see if the tape comes back out, by a spring motion, just as much as you have pushed in.
- 4. Turn the Pulley Assembly in the appropriate direction shown in Fig. M1 until the cassette tape is fully loaded. By turning the Pulley Assembly, you are turning the cam indicated in this figure. However, movement of the cam will be very slow. Allow a minute or two to complete this task.

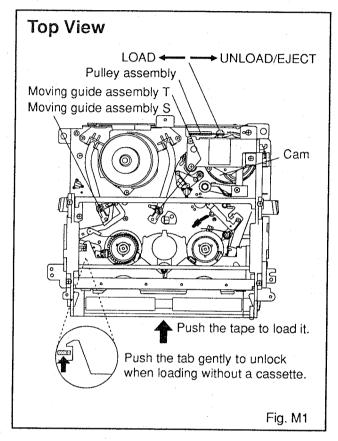
To unload a cassette tape manually:

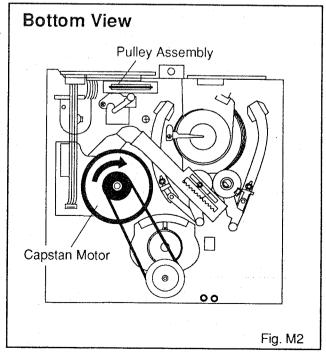
- 1. Disconnect the AC plug.
- 2. Remove the Top Cover.
- 3. Turn the Pulley Assembly in the appropriate direction shown in Fig. M1 to unload the cassette tape. When turning the Pulley Assembly, please be aware that this is a long process and the cassette will not start getting unloaded instantaneously. Within this long process, before the cassette actually starts getting unloaded, there is a time period during which the moving guide assemblies slide back to their original positions shown in Fig. M1. However, the tape will be left wound around the cylinder. To put the tape back into the cassette. gently turn the Capstan Motor in the direction shown in Fig. M2. Make sure that the tape is completely placed back in the cassette before the cassette starts getting unloaded. Otherwise the tape hanging out will be caught and damaged by the lid of the cassette when it closes. By turning the Pulley Assembly, you are turning the cam indicated in Fig. M1. As stated, move-
- or two to complete this task.B. Method to place the Cassette Holder in the tapeloaded position without a cassette tape

ment of the cam will be very slow. Allow a minute

1. Disconnect the AC Plug.

- 2. Remove the Top Cover.
- 3. Turn the Pulley Assembly in the appropriate direction shown in Fig. M1 until the Cassette Holder comes to the tape-loaded position. Allow a minute or two to complete this task.





1. Tape Interchangeability Alignment

Note: To do these alignment procedures, make sure that the Tracking Control Circuit is set to the center position every time a tape is loaded or unloaded. (Refer to page 2-3-4, procedure 1-C, step 1.)

Equipment required:

Dual Trace Oscilloscope
VHS Alignment Tape (FL6NS8)
Guide Roller Adj. Screwdriver
X-Value Adj. Screwdriver

Note: Before starting this Mechanical Alignment, do all Electrical Adjustment procedures.

Flowchart of Alignment for tape traveling Loading (Use a blank tape.) Adjust the height of the Guide Rollers (Supply side and take-up side). (Use a blank tape.) (pg. 2-3-3) 1-A Check to see that the tape is not creasing and that there is no slack on the supply and take-up side Guide Rollers. (Use a blank tape.) Adjust the X Value for maximum envelope. (pg. 2-3-3) 1-B Not good Adjust the envelope. (pg. 2-3-4) 1-C Do the final tape-traveling test to see that Not good Check the envelope. 1-C the tape runs normally in play mode without creasing or slacking. 1-A OK OK Adjust the Audio Section. (Azimuth Alignment) (pg. 2-3-4) 1-D Completion Not good Check the audio output. 1-D Check the following: Not good Adjust the X value and envelope. 1-B, 1-C 1. X Value (pg. 2-3-3) 2. Envelope (pg. 2-3-4) 1-B, 1-C OK

1-A. Preliminary/Final Checking and Alignment of Tape Path

Purpose:

To make sure that the tape path is well stabilized.

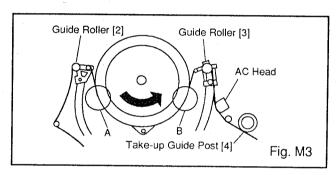
Symptom of Misalignment:

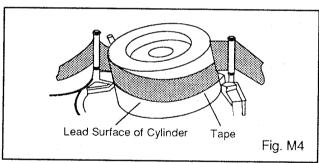
If the tape runs unstable, the tape will be damaged.

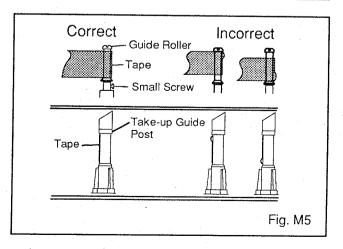
Note: Do not use an Alignment Tape for this procedure. If the unit is not correctly aligned, the tape may be damaged.

- 1. Play back a blank cassette tape and check to see that the tape runs without creasing at Guide Rollers [2] and [3], and at points A and B on the lead surface. (Refer to Fig M3 and M4.)
- If creasing is apparent, align the height of the guide rollers by turning the top of Guide Rollers [2] and [3] with a Guide Roller Adj. Screwdriver. (Refer to Fig. M3 and M5.)

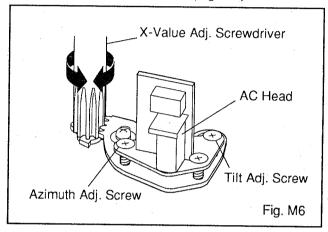
Note: Beneath each Guide Roller, there is a small screw. (Refer to Fig. M5.) This screw works







- to apply adequate torque to the shaft of each Guide Roller so that the Guide Roller turns properly. Even when adjusting the height of the Guide Roller(s), do not touch these two small screws.
- Check to see that the tape runs without creasing at Take-up Guide Post [4] or without snaking between Guide Roller [3] and AC Head. (Fig. M3 and M5)
- 4. If creasing or snaking is apparent, adjust the Tilt Adj. Screw of the AC Head. (Fig. M6)



1-B. X Value Alignment

Purpose:

To align the Horizontal Position of the Audio/Control Head.

Symptom of Misalignment:

If the Horizontal Position of the Audio/Control Head is not properly aligned, maximum envelope cannot be obtained at the Neutral position of the Tracking Control Circuit.

- Set the Tracking Control Circuit to the center position by pressing CH UP and DOWN buttons on VCR simultaneously. (Refer to note on page 2-3-4.)
- Connect the oscilloscope to TP (C-PB) and TP (CTL) on the Main CBA. Use TP (RF-SW) as a trigger.
- Play back the Gray Scale of the Alignment Tape (FL6NS8) and confirm that the PB FM signal is present.
- 4. Use the X-Value Adj. Screwdriver so that the PB FM signal at TP (C-PB) or TP of AUDIO OUT is maximum. (Fig.M6)
- Press CH UP button on VCR until CTL waveform is shifted by approx. +2msec. Make sure that the envelope is simply attenuated (shrinks in height) during this process so that you will know the envelope has been at its peak.
- 6. Press CH DOWN button on VCR until CTL waveform is shifted from its original position (not the po-

sition achieved in step 5 just above, but the position of CTL waveform until step 4) by approximately -2msec. Make sure that the envelope is simply attenuated (shrinks in height) once CTL waveform passes its original position and is further brought in the minus direction.

 Set the Tracking Control Circuit to the center position by pressing CH UP and DOWN buttons on VCR simultaneously.

1-C. Checking/Adjustment of Envelope Waveform

Purpose:

To achieve a satisfactory picture and precise tracking.

Symptom of Misalignment:

If the envelope output is poor, noise will appear in the picture. The tracking will then lose precision and the playback picture will be distorted by any slight variation of the Tracking Control Circuit.

- Set the Tracking Control Circuit to the center position by pressing both CH UP and DOWN buttons on VCR simultaneously.
- 2. Connect the oscilloscope to TP (C-PB) on the Main CBA. Use TP (RF-SW) as a trigger.
- Play back the Gray Scale on the Alignment Tape (FL6NS8). Adjust the height of Guide Rollers [2] and [3] (Fig.M3) watching the oscilloscope display so that the envelope becomes as flat as possibile. To do this adjustment, turn the top of the Guide Roller with the Guide Roller Adj. Screwdriver.
- 4. If the envelope is as shown in Fig. M7, adjust the height of Guide Roller [2] (Refer to Fig.M3) so that the waveform looks like the one shown in Fig. M9.
- 5. If the envelope is as shown in Fig. M8, adjust the height of Guide Roller [3] (Refer to Fig.M3) so that the waveform looks like the one shown in Fig. M9.
- 6. When Guide Rollers [2] and [3] (Refer to Fig.M3) are aligned properly, there is no envelope drop either at the beginning or end of track as shown in Fig. M9.

Note: Upon completion of the adjustment of Guide Rollers [2] and [3] (Refer to Fig. M3), check the X Value by pushing the Tracking Control Up or Down buttons alternately, to check the symmetry of the envelope. Check the number of pushes to ensure center position. The number of pushes UP to achieve 1/2 level of envelope should match the number of pushes DOWN from center. If required, redo the "X Value Alignment."

1-D. Azimuth Alignment of Audio/Control Head

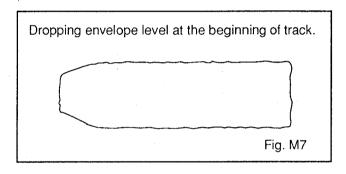
Purpose:

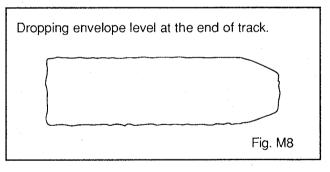
To correct the Azimuth alignment so that the Audio/Control Head meets tape tracks properly.

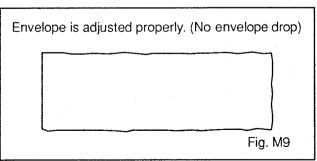
Symptom of Misalignment:

If the position of the Audio/Control Head is not properly aligned, the Audio S/N Ratio or Frequency Response will be poor.

- Connect the oscilloscope to the audio output jack on the rear side of the deck.
- 2. Play back the alignment tape (FL6NS8) and confirm that the audio signal output level is 8 kHz.
- Adjust Azimuth Adj. Screw so that the output level on the AC Voltmeter or the waveform of the oscilloscope is at maximum. (Fig. M6)







DISASSEMBLY/ASSEMBLY PROCEDURES OF DECK MECHANISM

Main Mechanism

Before following the procedures described below, be sure to:

- Remove the deck assembly from the cabinet.
 (Refer to DISASSEMBLY INSTRUCTIONS in Main Section.)
- 2. Remove Front Loading Assembly from the main mechanism of the deck assembly. (See Fig. DM1.)

All the following procedures, including those for adjustment and replacement of parts, should be done in Eject mode; see the positions of [33] and [34] in Fig. DM3 on page 2-4-4. When reassembling, follow the steps in reverse order.

STEP		or [30] and [34] in rig. Divis	3.1.		REMOVAL	INSTALLATION
/LOC.	ING	PART				INSTALLATION
No.	No.	TAN		Fig. No.	REMOVE/*UNHOOK/ UNLOCK/RELEASE/ UNPLUG/DESOLDER	ADJUSTMENT CONDITION
[1]	[1]	Front Loading Assembly	Т	DM1	2(S-1), (S-2), *(P-1)	
[2]	[1]	Motor Holder Assembly	T	DM3 DM5 DM6	3(S-4), Loading Belt	(+) Refer to Alignment Sec. Pg. 2-4-12.
[3]	[1]	Loading Motor Assembly	Т	DM2 DM3 DM5	2(S-5), CL2693	
[4]	[1]	Cassette Drive Lever Assembly	Т	DM3 DM5		(+) Refer to Alignment Sec. Pg. 2-4-12.
[5]	[1]	Pinch Roller Arm Assembly	Т	DM3 DM5	(C-1) Pinch Roller Spring	Refer to Alignment Sec. Pg. 2-4-12.
[6]	[1]	Pinch Arm Assembly	T	DM3 DM5		Refer to Alignment Sec. Pg. 2-4-12.
[7]	[7]	Mode SW CBA	В	DM4 DM8	Stopper Boss, *(L-1)	
[8]	[8]	Joint CBA	T/B	DM2 DM3 DM4 DM7 DM8	(S-6), CN2692, CL2693, *CL2691, CL2692	
[9]	[1]	Cam	T	DM3 DM5		(+) Refer to Alignment Sec. Pg. 2-4-12.
[10]	[1]	Pulley Assembly	Т	DM3 DM6	(W-1), Loading Belt	(+)
[11]	[11]	Head Amp CBA	T/B	DM2 DM3 DM4 DM8	(S-7), (S-8), (S-22) CN3802, CL3801, CL3802 (S-22 is not applicable to A and B .)	
[12]	[12]	Arm Idler Assembly	T	DM3 DM9	Clutch Shaft Cap, Clutch Bushing	(+)
[13]	[13]	Clutch Assembly	В	DM4 DM9	(C-2), (W-2) Capstan Belt	(+)
[14]	[13]	Capstan Motor Unit	В	DM4 DM10	3(S-9)	
[15]	[1]	M Lever Holder	Т	DM3 DM11	(S-10)	(+) Oil, (+) Grease
[16]	[1]	Kick Arm Holder	В	DM4 DM11	Kick Arm Spring	
[17]	[16]	Kick Arm	В	DM4 DM11	Bushing	(+)
[18]	[18]	Mode Change Lever	Т	DM3 DM12	*2(L-2)	(+)
[19]	[1]	Main Lever Assembly	Т	DM3 DM12 DM15	*(L-3)	
[20]	[20]	Tape Guide Assembly	Т	DM3 DM15	*(P-2), *(L-4)	Keep the distance specified in Fig. DM15.
[21]	[21]	ACE Head Assembly	Т	DM3 DM14	2(S-11)	

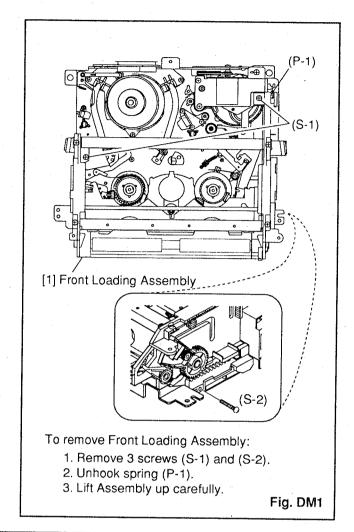
STEP	START-				REMOVAL	INSTALLATION
/LOC. No.	ING No.	PART		Fig. No.	REMOVE/*UNHOOK/ UNLOCK/RELEASE/ UNPLUG/DESOLDER	ADJUSTMENT CONDITION
[22]	[22]	Tension Lever Sub Assembly	Т	DM3 DM13 DM22	*(L-5) *(P-6)	Refer to Alignment Sec. Pg. 2-4-14.
[23]	[22]	Band Brake Sub Assembly	Т	DM3 DM13	(S-12), *(L-6)	
[24]	[18]	M Brake (S) Lever	Τ	DM3 DM12 DM16		(+)
[25]	[18]	M Brake (S)	T	DM3 DM16	*(P-3), *(L-7)	(+) When reassembling, hook the spring (P-3) after installation of Mode Change Lever.
[26]	[18]	S Brake Arm	Τ.	DM3 DM16	*(P-4), *(L-8)	(+) When reassem- bling, hook the spring (P-4) after installation of Mode Change Lever.
[27]	[18]	M Brake (T) Assembly	T	DM3 DM16		(+)
[28]	[18]	T Brake Arm Assembly	Т	DM3 DM16	*(P-5)	(+) When reassem- bling, hook the spring (P-5) after installation of Mode Change Lever.
[29]	[18]	Reel Base Assembly T	Т	DM3 DM17	Poly Slider Washer	(+)
[30]	[18]	Reel Base Assembly S	Т	DM3 DM17	Poly Slider Washer	(+) Base has slots.
[31]	[31]	Ground Brush Assembly	В	DM4 DM18 DM19	(S-13)	Refer to Alignment Sec. Pg. 2-4-12.
[32]	[11],[31] Only	Cylinder Assembly	Τ	DM3 DM18	3(S-14)	Refer to Alignment [31] Sec. Pg. 2-4-12.
[33]	[1]	Moving Guide S Assembly	Т	DM3 DM20		
[34]	[1]	Moving Guide T Assembly	T	DM3 DM20		
[35]	[1] Only	FE Head	Т	DM3 DM20	(S-15)	
[36]	[36]	Main Prism	Т	DM3 DM20	(S-16)	
[37]	[1]	Loading Arm M Assembly	В	DM4 DM21	(C-3)	(+) Refer to Alignment Sec. Pg. 2-4-12.
[38]	[1]	Loading Gear A	В	DM4 DM21		(+) Refer to Alignment Sec. Pg. 2-4-12.
[39]	[1]	Loading Gear B	В	DM4 DM21		(+) Refer to Alignment Sec. Pg. 2-4-12.
[40]	[40]	Spring Supporter	В	DM4 DM22	(S-17)	
[41]	[40]	BT Drive Arm	В	DM4 DM12 DM22	(S-18), *(P-6), *(P-7)	
[42]	[42]	Rec Arm Assembly	В	DM4 DM22	(S-19)	
[43]	[42]	Reel Drive Arm	В	DM23	(S-20), (C-4), *(P-8) Drive Arm Roller	
[44]	[42]	Holder Kick Arm	В	DM23	*(P-9)	
[45]	[45]	Cleaning Head	Т	DM3		-
[46]	[46]	F Brake (2) [C, D only]	В	DM4 DM10	CS Ring	
[47]	[46]	F Brake Guide [C, D only]	В	DM4 DM10	2(S-21) F Brake Spring	
1	2	3	4	5	6	7

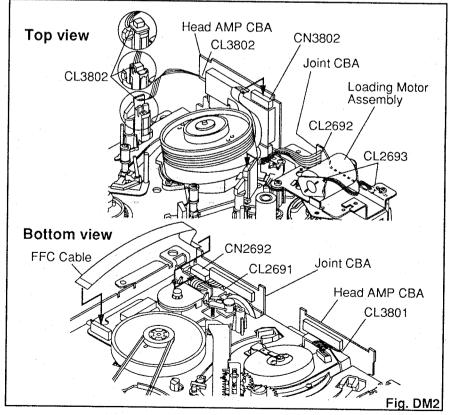
- 1: Follow steps in sequence. When reassembling, follow the steps in reverse order.

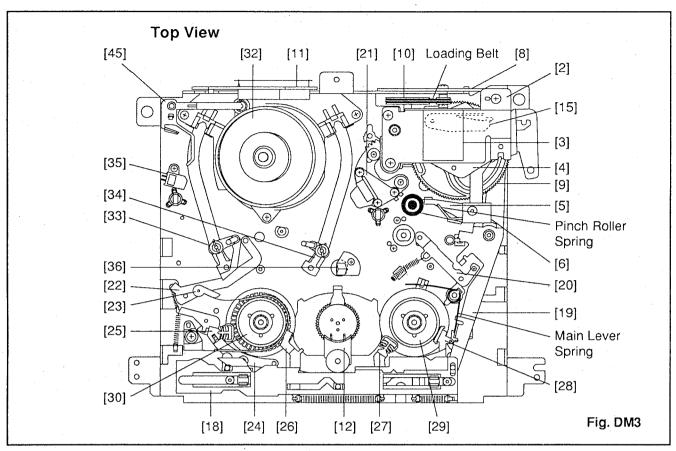
 These numbers are also used as identification (location) No. of parts in the figures.
- 2: Indicates the part to start disassembly in order to disassemble the part in column (1).
- 3: Name of the part
- (4): Location of the part T=Top B=Bottom R=Right L=Left
- 5: Figure Number
- 6: Identification of parts to be removed, unhooked, unlocked, released, unplugged, unclamped, or desoldered.
 - P=Spring, W=Washer, C=Cut Washer, S=Screw L=Locking Tab
 - *=Unhook, Unlock, Release, Unplug, or Desolder e.g. 2(C-2) = two Cut Washers (C-2)
 - 2(L-2) = two Locking Tabs (L-2)
- 7: Adjustment Information for Installation
 (+): Refer to Deck Exploded Views for lubrication information.

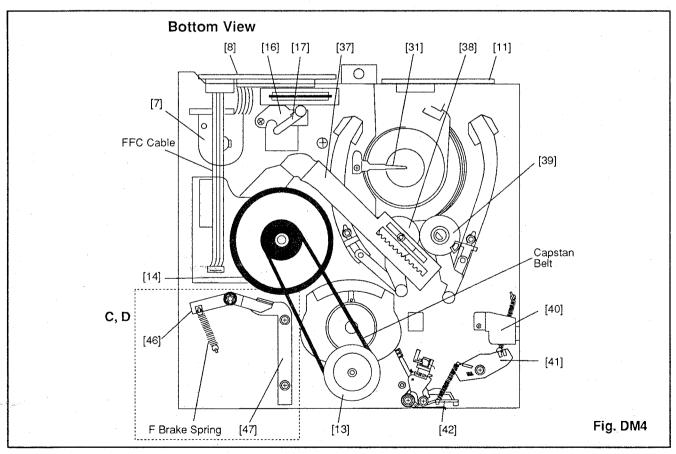
Comparison Chart of Models and Marks

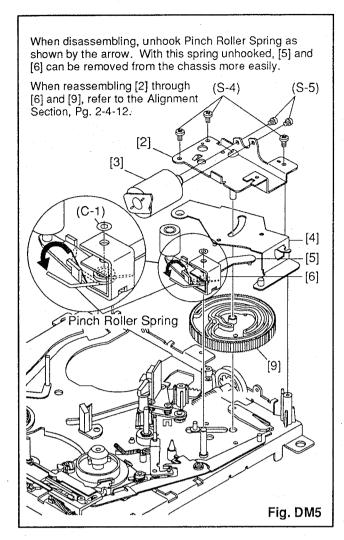
Model	Mark
13A-109	Α
13A-129	В
13A-509	С
13A-529	D

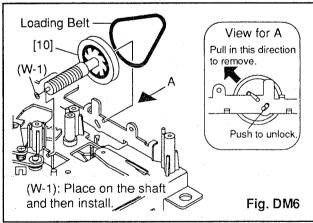


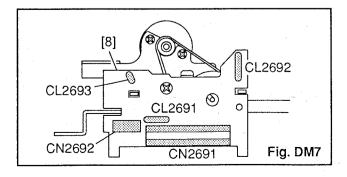


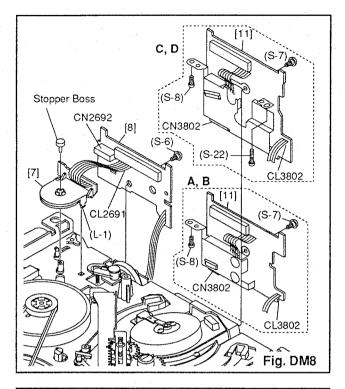


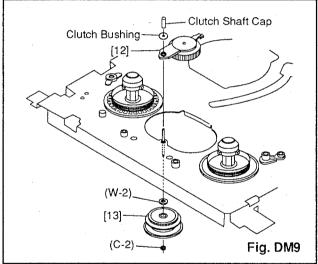


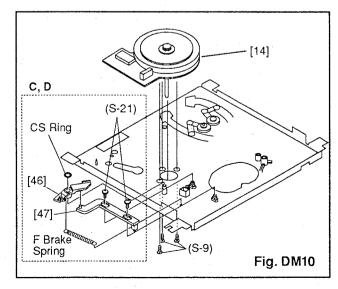


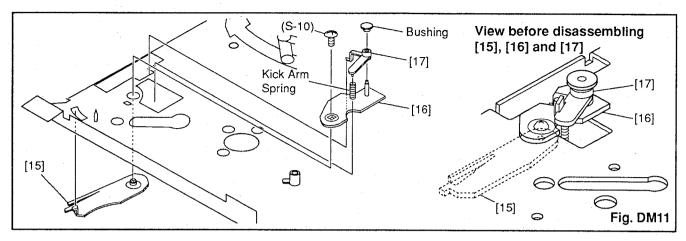


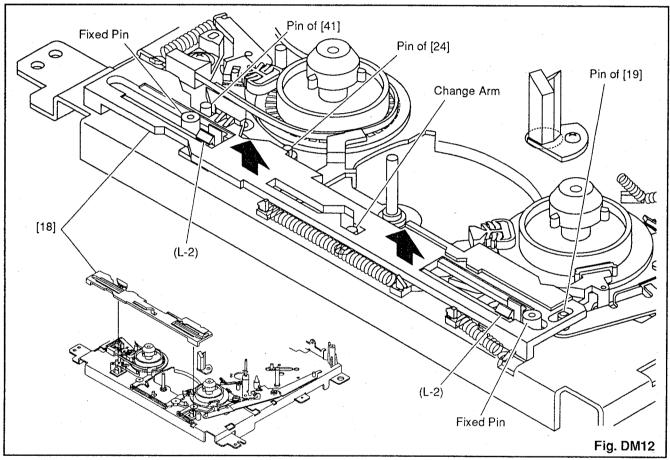


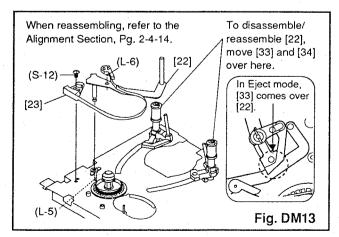


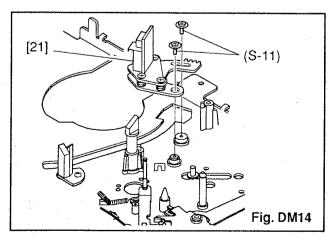


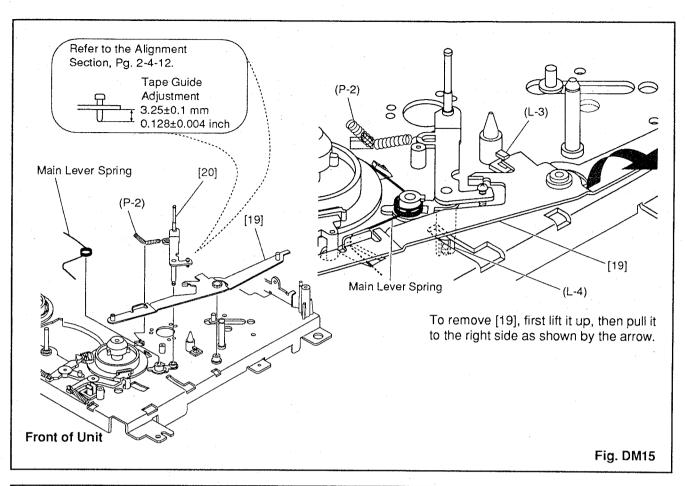


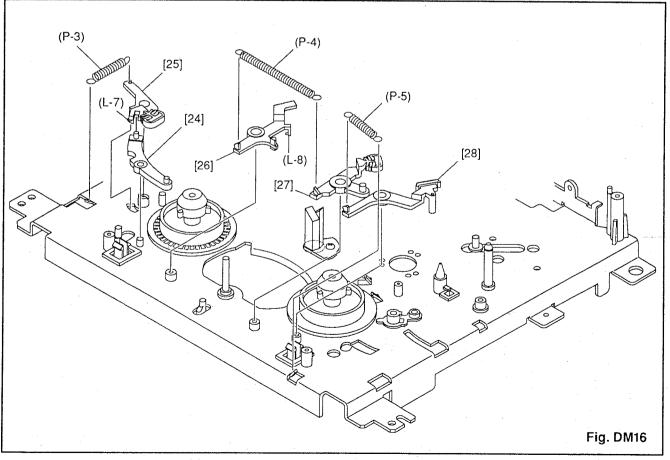


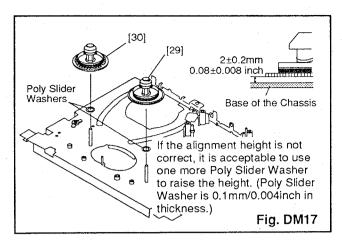


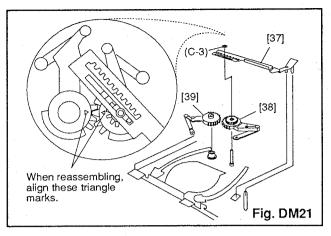


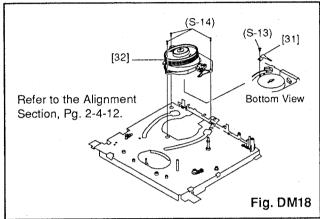


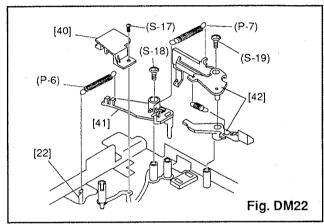


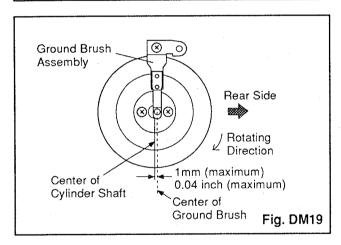


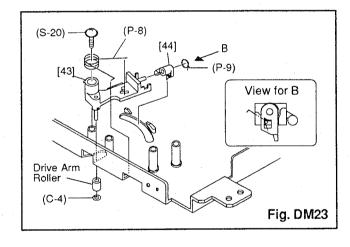


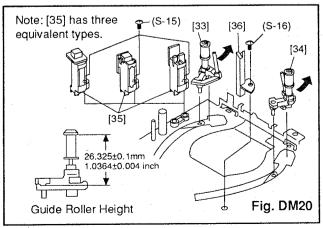










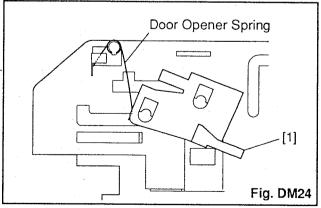


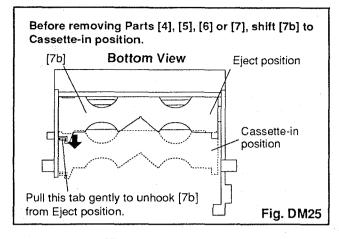
Front Loading Assembly

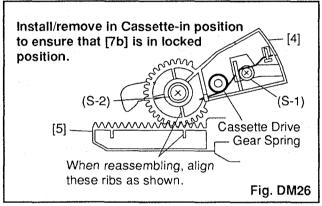
Before following the procedures described below, be sure to remove Front Loading Assembly from the main mechanism of the deck assembly. (See Fig. DM1.) When reassembling, start with the unit in Cassette-in mode and follow the steps in reverse order.

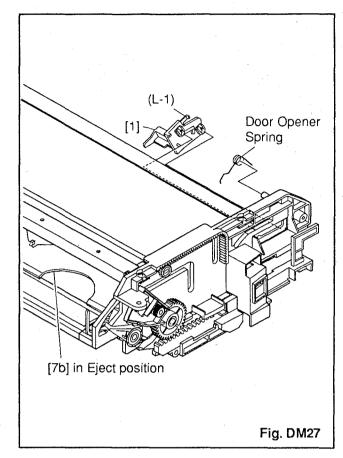
STEP /LOC.			-			REMOVAL	INSTALLATION
No.	No.	PART			Fig. No.	REMOVE/*UNHOOK/ UNLOCK/RELEASE/ UNPLUG/DESOLDER	ADJUSTMENT CONDITION
[1]	[1]	Door Opener	R		DM24 DM27	*(L-1) Door Opener Spring	(+)
*[2]	[2]	Slider Gear	R (or L)	DM28 DM30	(C-1)	(+)
+101		Slider Gear	L (c	rR)	DM28 DM30	(C-2)	(+)
*[3]	[2]	Slider Shaft	Т				Install in Eject position.
[4]	[2]	Cassette Drive Gear	R		DM25 DM26 DM28	(S-1), (S-2), Cassette Drive Gear Spring	(+)
[5]	[2]	FL Rack	R		DM25 DM26 DM28		
[6]	[2]	F Door Opener R	R		DM25 DM28 DM29	*(L-2) F Door Opener R Spring	DM29
[7]	[2]	[7a] Front Guide [7b] Cassette Holder Asser [7c] Deck Support B [7d] Deck Support F	mbly	Т	DM25 DM26 DM27 DM28	4(S-3), *2(L-3)	
		[7e] Cassette Guide R		R			(+)
		[7f] Cassette Guide L		L			(+)
[8]	[8]	Gear Supporter L			DM28	(S-4)	
[9]	[9]	Mirror Holder R	R		DM28		
[10]	[10]	Mirror Holder L	L		DM28		
1	2	3	4		5	6	7

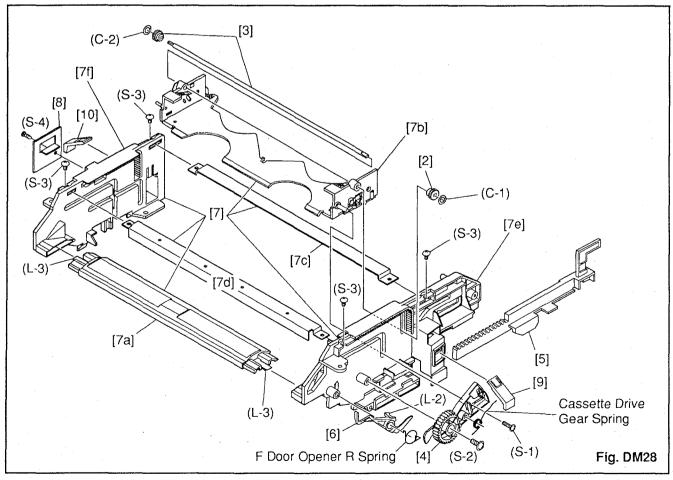
- ①: Follow steps in sequence. When reassembling, follow the steps in reverse order. These numbers are also used as identification (location) No. of parts in the figures.
- 2: Indicates the part to start disassembling with in order to disassemble the part in column 1.
- ③: Name of the part
- 4: Location of the part: T=Top B=Bottom R=Right L=Left
- ⑤: Figure Number
- (6): Identification of parts to be removed, unhooked, unlocked, released, unplugged, unclamped, or desoldered. P=Spring, W=Washer, C=Cut Washer, S=Screw, *=Unhook, Unlock, Release, Unplug, or Desolder e.g. 2(L-2) = two Locking Tabs (L-2)
- Adjustment Information for Installation (+): Refer to Deck Exploded Views for Iubrication.
- *[2], *[3]: Slider Gear in Step [2] and that in Step [3] are identical. However, they are divided into two steps because, before reassembling Slider Shaft, one Slider Gear must be preinstalled at either end of Slider Shaft.

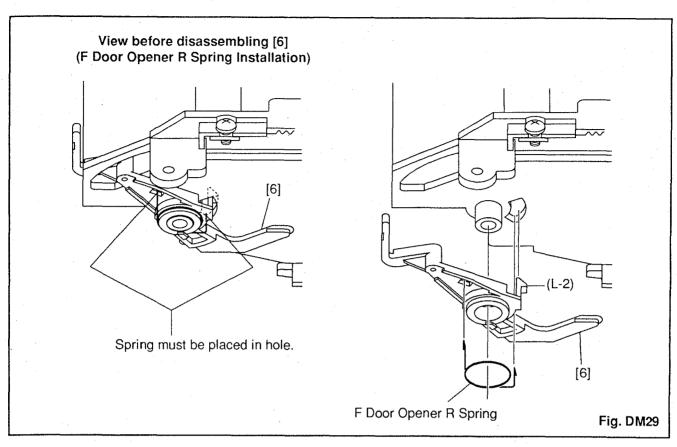


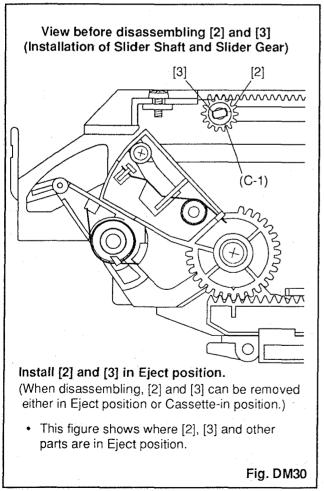












ALIGNMENT PROCEDURES OF MECHANISM

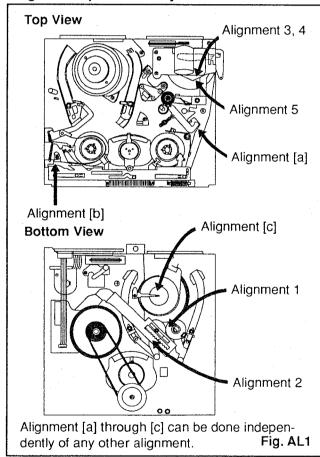
The following procedures describe how to align the individual gears and levers that make up the tape loading/unloading mechanism. Since information about the state of the mechanism is provided to the System Control Circuit only through the Mode Switch, it is essential that the correct relationship between individual gears and levers be maintained.

All alignments are to be performed with the mechanism in Eject mode, in the sequence given. Each procedure assumes that all previous procedures have been completed.

IMPORTANT:

If any one of these alignments is not performed properly, even if off by only one tooth, the unit will unload or stop and it may result in damage to the mechanical or electrical parts.

Alignment points in Eject Position



Alignment [a]

Tape Guide Assembly

 Measurement of the black screw must be as specified in Fig. AL3.

Alignment 1

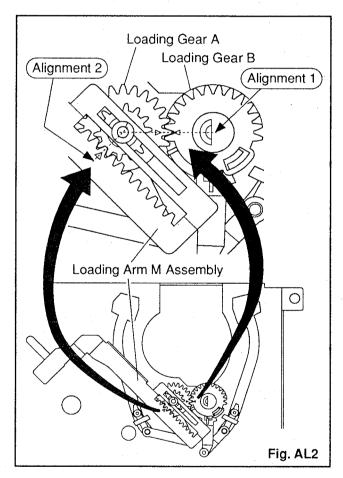
Loading Gears, A and B

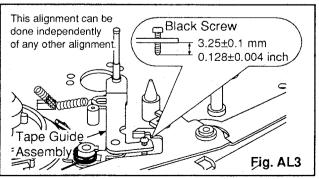
1. Install Loading Gears A and B so that their triangle marks point to each other as shown in Fig. AL2.

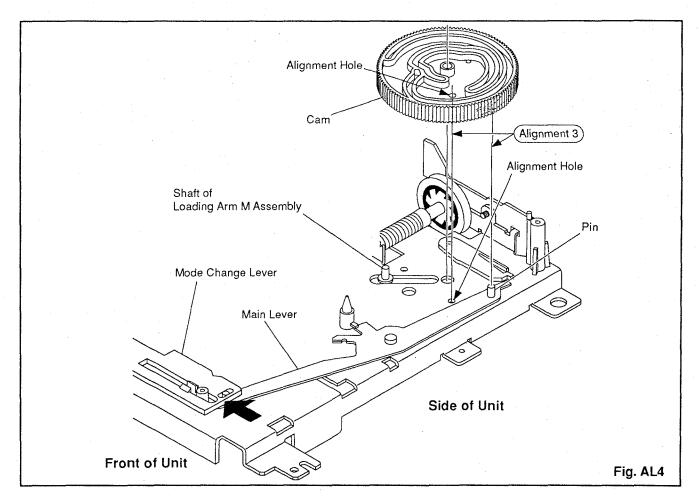
Alignment 2

Loading Arm M Assembly

Keeping the two triangles pointing at each other, install Loading Arm M Assembly so that its tooth with yet another triangle mark is in the position to align with Loading Gear A and the center of the shaft. See Fig. AL2.







Alignment 3

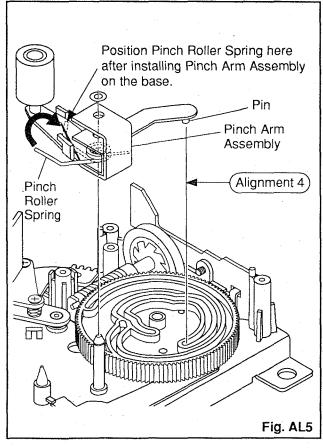
Cam

- 1. Make sure that the mechanism is in Eject mode so that the shaft of Loading Arm M Assembly is in the position shown in Fig. AL4.
- 2. Align the alignment hole of the Cam with the alignment hole of the base, holding the Cam just above the base.
- 3 Carefully keeping these two holes aligned, install the Cam while pushing Mode Change Lever in the direction of the arrow. The Mode Change Lever must be pushed to make the pin on the Main Lever fit in the proper groove in the lower Cam.
- 4 After installing the Cam, make sure that the alignment hole of the Cam is still aligned with the base hole and that the pin on the Main Lever is inserted into the proper groove of the lower Cam as specified in Fig. AL4.

Alignment 4

Pinch Roller Arm Assembly

1. Ensure that the pin of the Pinch Roller Arm Assembly is positioned in the end of the groove of the upper Cam as shown in Fig. AL5.

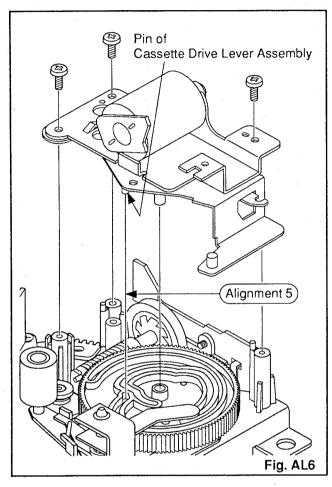


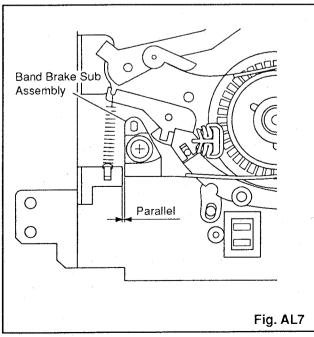
U13APM

Alianment 5

Cassette Drive Lever Assembly

 Ensure that the pin of the Cassette Drive Lever Assembly is positioned in the groove of the upper Cam as shown in Fig. AL6.





Alignment [b]

This alignment can be performed independently of any other alignment.

Band Brake Sub Assembly

1. Ensure that Band Brake Sub Assembly is positioned parallel to the chassis' notch as shown in Fig. AL7. This measurement can be made by eye.

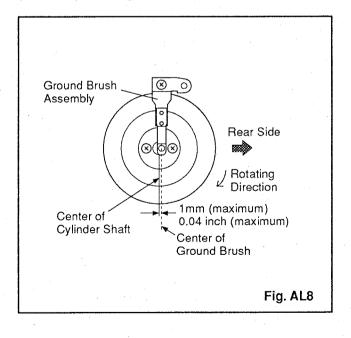
Alignment [c]

This alignment can be performed independently of any other alignment.

Ground Brush Assembly

- Check to see if the Ground Brush Assembly is properly set in a position equal to or just less than 1mm (0.04 inch) (but never more than 1 mm or 0.04 inch), as measured from the center of the brush to the center of the Cylinder Shaft as shown in Fig. AL8.
- If this measurement exceeds 1mm (0.04 inch), loosen and refasten the screw of the Ground Brush Assembly. If this is not enough and further adjustment is necessary, loosen and refasten the three screws of Cylinder Assembly. These three screws are shown in Fig. DM18 in DISASSEM-BLY/ASSEMBLY PROCEDURES OF DECK MECHANISM.

Note: DO NOT install the Ground Brush Assembly in the opposite position (on the left side of the center of the Cylinder shaft), but always within a maximum of 1mm (0.04 inch) to the right side of the center of this shaft.



EXPLODED VIEWS AND PARTS LIST SECTION

VIDEO CASSETTE RECORDER

13A-109 / 13A-129 / 13A-509 / 13A-529

Sec. 3: Exploded views and Parts List Section

- Exploded views
- Parts List

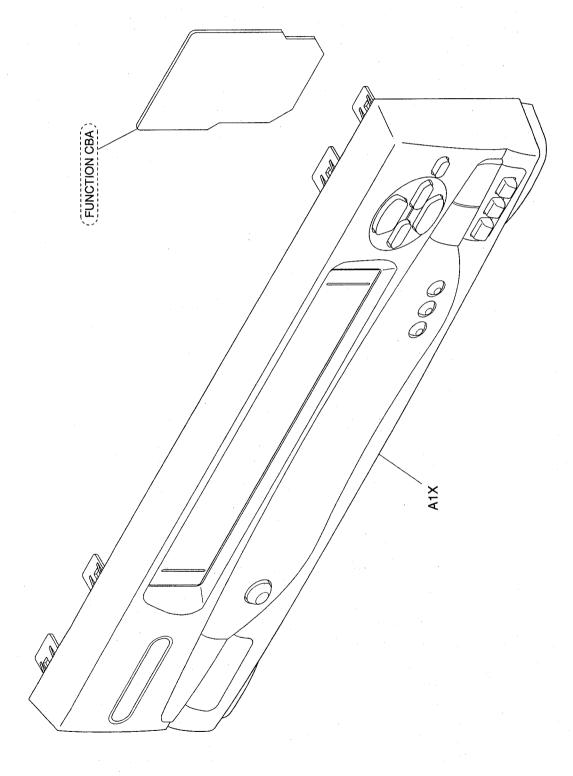
TABLE OF CONTENTS

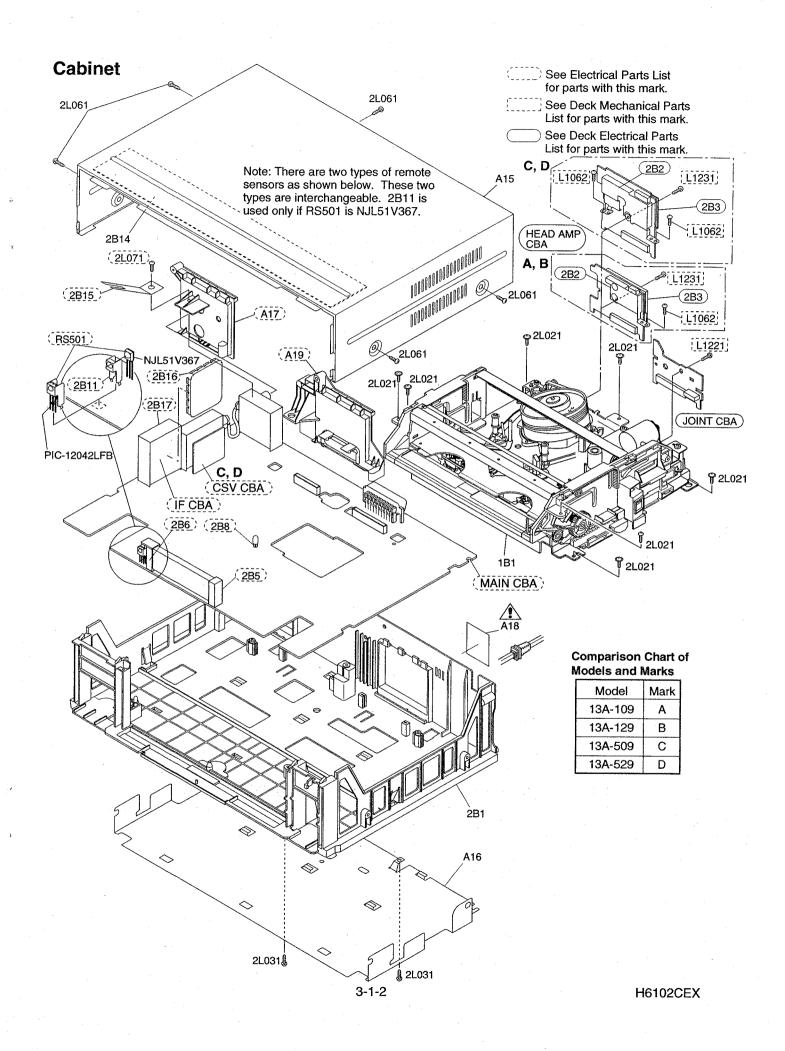
Exploded Views	3-1-1
Mechanical Parts List	3-2-1
	3-3-1
Deck Mechanical Parts List	2.4.1
Deck Electrical Parts List	3-5-1

EXPLODED VIEWS

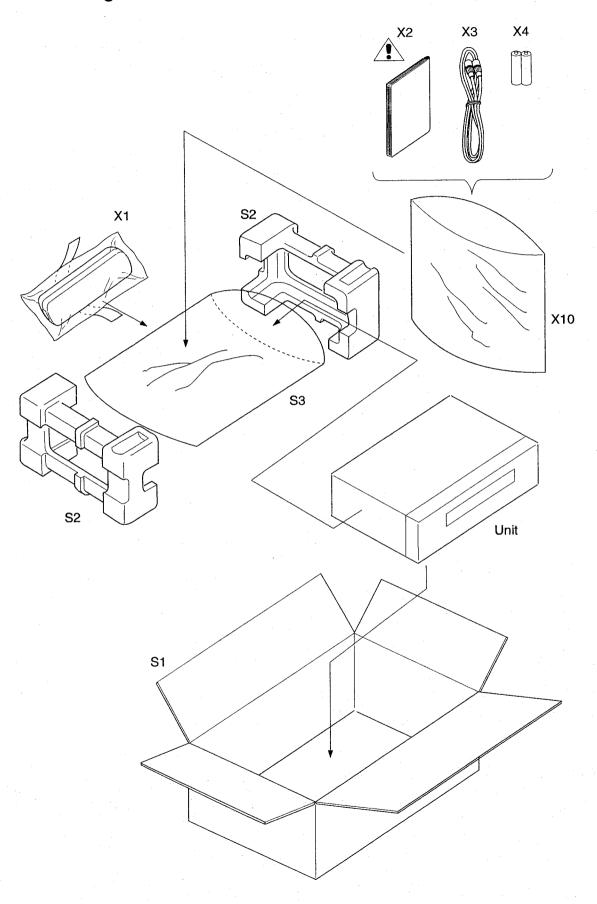
Front Panel

See Electrical Parts List for parts with this mark.





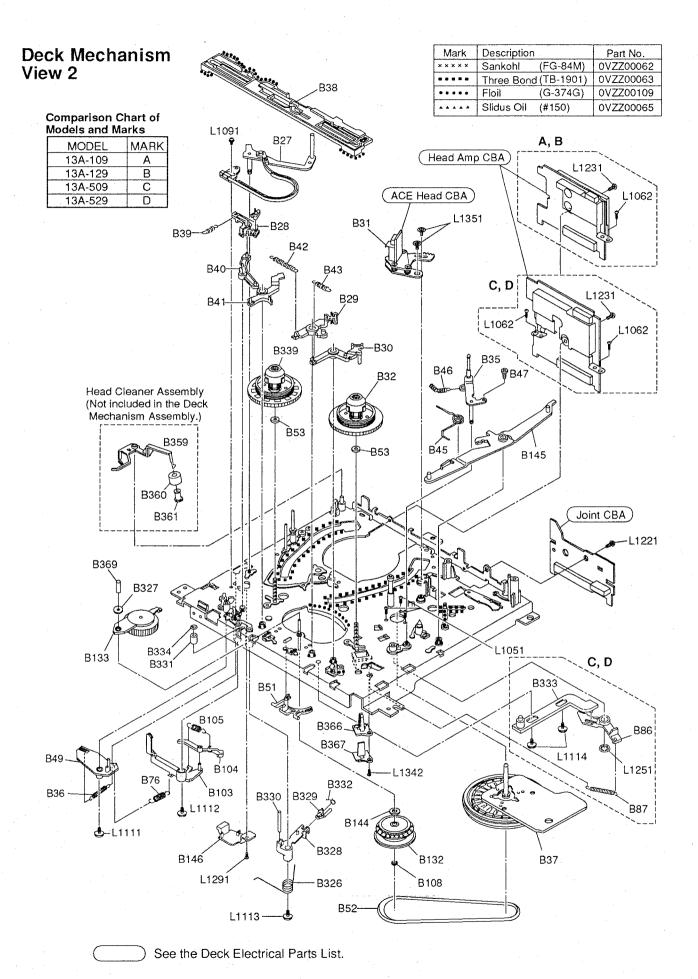
Packing



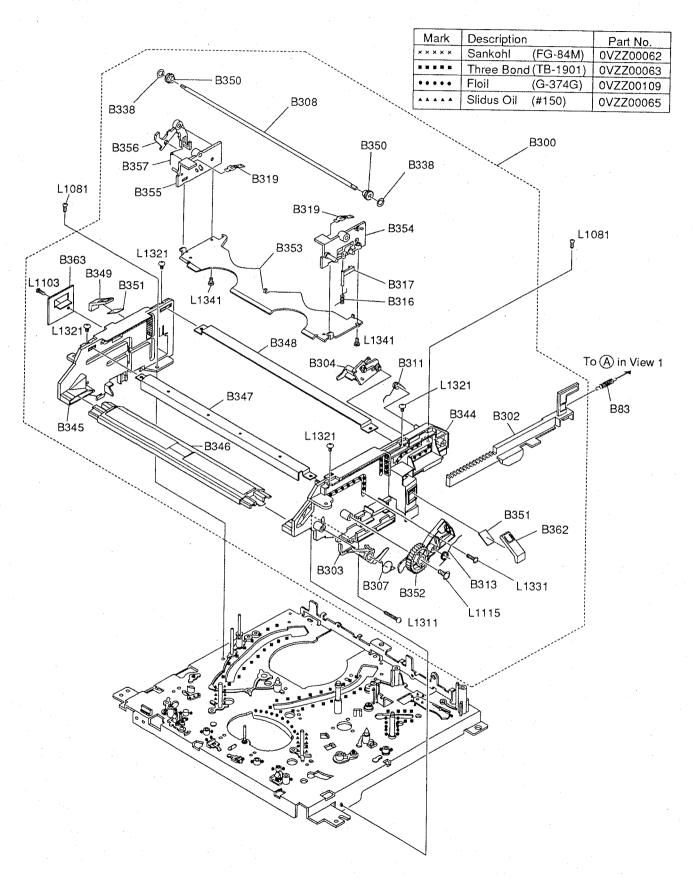
Deck Mechanism View 1 Mark Description Part No. Sankohl (FG-84M) 0VZZ00062 Three Bond (TB-1901) 0VZZ00063 (G-374G) 0VZZ00109 Floil Slidus Oil (#150) 0VZZ00065 L1101 B3 L1011 B2 B15 (FE Head CBA) (Type B) L1191 B358 B122 FE Head CBA (Type C) (B73 Note: B73 has three types and must be used with an appropriate FE head CBA. Combinations are made clear in Deck electrical parts list. B141 As long as the combination is correct, all the B149 B121 three types of B73 are interchangeable and can be equally used whichever model the unit may be. B369 B81 (Mode SW CBA) **₿** B147 L1061 B130

See the Deck Electrical Parts List.

B13



Deck Mechanism View 3



MECHANICAL PARTS LIST

PRODUCT SAFETY NOTE: Products marked with a
⚠ have special characteristics important to safety. Before replacing any of these components, read carefully
the product safety notice in this service manual. Don't
degrade the safety of the product through improper servicing.

Comparision Chart of Models and Marks

MODEL	MARK
13A-109	Α
13A-129	В
13A-509	C
13A-529	D

Ref. No.	Mark	Description	Part No.			
A1X	A,B	FRONT ASSEMBLY	0VM201941			
A1X	C,D	FRONT ASSEMBLY	0VM201960			
A 15		CASE, TOP	0VM100621			
A 16		PANEL, BOTTOM	0VM201919			
-A 18 <u>/↑</u>	Α	LABEL, RATING	0VM407361			
A 18 🔨	В	LABEL, RATING	0VM407362			
A 18 <u>^</u>	C.	LABEL, RATING	0VM407425			
A 18 <u>^</u>	D	LABEL, RATING	0VM407646			
1B 1	A,B	DECK ASSEMBLY	N5106FK			
1B 1	C,D	DECK ASSEMBLY	N5147FK			
2B 1		CHASSIS	0VM000090			
2B 14		FIBER, TOP CASE	0VM406787			
2L 021		SCREW, P-TIGHT 3X10 WASHER HEAD+	GCMP3100			
2L 031		SCREW, P-TIGHT 3X10 BIND HEAD	GBMP3100			
2L 061		SCREW, P-TIGHT 4X12 BIND HEAD+	GBKP4120			
		PACKING				
S1	Α	GIFT BOX CARTON	0VM407364			
S1	В	GIFT BOX CARTON	0VM407363			
S1	С	GIFT BOX CARTON	0VM407422			
S1	D	GIFT BOX CARTON	0VM407649			
S2		STYROFOAM(U13 PAL)	0VM201926			
S3		ACCESSORY BAG 470X560X0.05T	Z547560			
		ACCESSORY KIT				
X 1	A,B	REMOTE CONTROL UNIT 364/CRC001/4H/P2/VPS	UREMT34SR015			
X 1	C,D	REMOTE CONTROL UNIT 364/CRC001/4H/P2/VPS	N9140EN			
X2 <u>∧</u>	Α -	OWNER'S MANUAL	0VMN01773			
X 2 <u>∧</u>	В	OWNER'S MANUAL	0VMN01774			
X 2 <u>^</u>	С	OWNER'S MANUAL	0VMN01792			
X 2 <u>^</u>	D	OWNER'S MANUAL	0VMN01848			
X 3		RF CORD PAL 1.2M	WPZ0122LG001			
X 4		DRY BATTERY UM-3(M) 2PCS PACK or	1790849			
		DRY BATTERY UM3/RS6 2PCS PACK or	579W099			
		DRY BATTERY R6P(AR) 2PX	XB0M451HU002			
X 10		ACCESSORY BAG	0VM404632			

ELECTRICAL PARTS LIST

PRODUCT SAFETY NOTE: Products marked with a
⚠ have special characteristics important to safety. Before replacing any of these components, read carefully
the product safety notice in this service manual. Don't
degrade the safety of the product through improper servicing.

NOTE: Parts that not assigned part numbers (-----) are not available.

Tolerance of Capacitors and Resistors are noted with the following symbols.

C±0.25%	D±0.5%	F	±1%
G±2%	J±5%	K	±10%
M±20%	N+30%	7	±80/-20¢

Comparision	Chart of	Models	and	Marks

MODEL	MARK
13A-109	Α
13A-129	В
13A-509	С
13A-529	D

MCV CBA

Ref. No.	Mark	Description	Part No.
	A,,B	MCV CBA (Main + Function + IFV)	0VSA07628
	C,,D	MCV CBA (Main + Function + IFV + CSV)	0VSA07786
		Consists of the following:	
		Main CBA (MCV-A)	
		Function CBA (MCV-B)	
	A,B	IF CBA (IFV)	0VSA07729
	C,D	IF CBA (IFV)	0VSA07788
	C,D	CSV CBA	0VSA07882

Main CBA (MCV-A)

Ref. No.	Mark	Description	Part No.						
		Main CBA (MCV-A)							
		Consists of the following:							
	CAPACITORS								
C 001 <u>A</u>		METALLIZED FILM CAP. $0.047\mu\text{F}/250\text{V}$ K or	CT2E473NC011						
		METALLIZED FILM CAP. 0.047μF/250V M or	CT2E473MS001						
		METALLIZED FILM CAP. 0.047μF/250V M or	CT2E473UN009						
	,	METALLIZED FILM CAP. 0.047μF/275V K or	CT2E473DT001						
	,	METALLIZED FILM CAP. 0.047μF/250V K	CT2E473NC004						
C 002 🛧		METALLIZED FILM CAP. 0.047μF/250V K or	CT2E473NC011						
		METALLIZED FILM CAP. 0.047μF/250V M or	CT2E473MS001						
		METALLIZED FILM CAP. 0.047μF/250V M or	CT2E473UN009						
		METALLIZED FILM CAP. 0.047μF/275V K or	CT2E473DT001						
		METALLIZED FILM CAP. 0.047μF/250V K	CT2E473NC004						
C 003 🔨		SAFTY CAP. 2200pF/400V M or	CCN2HMA0E222						
		SAFETY CAP. 2200pF/400V M	CCN2HMP0E222						
C 004		ELECTROLYTIC CAP. 22μF/400V M or	CA2H220NC010						
		ELECTROLYTIC CAP. 22μF/400V M	CA2H220SP027						
C 005		CERAMIC CAP. 0.01 µF/500V or	CA2J103TU001						
		CERAMIC CAP. B K 0.01µF/500V or	CCD2JKD0B103						
	.	CERAMIC CAP. B K 0.01µF/500V	CCD2JKP0B103						
C 006		CERAMIC CAP. SL J 120pF/1KV or	CA3A121MR506						

Ref. No.	Mark	Description	Part No.	
	1	CERAMIC CAP. SL K 120pF/1KV	CCD3AKPSL121	
C 007		SEMICONDUCTOR CAP. SR K	CDA1EKS0X393	
		0.039µF/25V or	ODA ILNOUASSS	
		SEMICONDUCTOR CAP. SR K 0.039μF/25V	12Y2393S	
C 008		CERAMIC CAP.(AX) X K 3300pF/16V or	CDA1CKT0X332	
		CERAMIC CAP. X K 0.0033µF/16V	3X4C332T	
C 009		CERAMIC CAP (AX) X K 4700pF/16V or	CDA1CKT0X472	
		CERAMIC CAP. X K 0.0047µF/16V	3X4C472T	
C 010		SEMICONDUCTOR CAP. SR K 0.022µF/25V or	CDA1EKS0X223	
٠		SEMICONDUCTOR CAP. SR K 0.022µF/25V	12Y2223S	
C 011		ELECTROLYTIC CAP. 4.7µF/50V M	CE1JMASDL4R7	
C 012		ELECTROLYTIC CAP. 470µF/16V M	CE1CMASDL471	
C 013		ELECTROLYTIC CAP. 22µF/50V M	CE1JMASDL220	
C 014		ELECTROLYTIC CAP. 330µF/16V M	CE1CMASDL331	
C 015		ELECTROLYTIC CAP. 330μF/16V M	CE1CMASDL331	
C 016		ELECTROLYTIC CAP. 1000μF/6.3V M	CE0KMASDL102	
C 017		ELECTROLYTIC CAP. 100µF/10V M	CE1AMASDL101	
C 018		CERAMIC CAP. F Z 0.01µF/50V	CCD1JZS0F103	
C 019		SEMICONDUCTOR CAP. SR K 0.022µF/25V or	CDA1EKS0X223	
_		SEMICONDUCTOR CAP. SR K 0.022µF/25V	12Y2223S	
C 021		CERAMIC CAP.(AX) B J 150pF/50V or	CCA1JJT0B151	
		CERAMIC CAP.(AX) B K 150pF/50V or	CCA1JKT0B151	
		CERAMIC CAP. B J 150pF/50V or	3B41151T	
		CERAMIC CAP. B K 150pF/50V	3B42151T	
C 022		*MYLAR CAP. 0.0012µF/100V J or	CMA2AJS00122	
		MYLAR CAP. 0.0012μF/100V J	1255122S	
C 051		ELECTROLYTIC CAP. 0.47μF/50V M H7 or	CE1JMASSLR47	
0.050		ELECTROLYTIC CAP. 0.47μF/50V M H7	526W474S	
C 053		CERAMIC CAP.(AX) B J 470pF/50V or	CCA1JJT0B471	
		CERAMIC CAP.(AX) B K 470pF/50V or	CCA1JKT0B471	
		CERAMIC CAP. B J 470pF/50V or	3B41471T	
		CERAMIC CAP. B K 470pF/50V	3B42471T	
C 054		ELECTRIC DOUBLE LAYER CAP. 0.022F/5.5V Z	CA0J223NE003	
C 055		ELECTROLYTIC CAP. 47µF/6.3V M	CE0KMASDL470	
C 056		ELECTROLYTIC CAP. 470μF/6.3V M	CE0KMASDL471	
C 060		CERAMIC CAP (AX) B J 150pF/50V or		
		CERAMIC CAP (AX) B K 150pF/50V or	CCA1JKT0B151	
		CERAMIC CAP. B J 150pF/50V or	3B41151T	
		CERAMIC CAP. B K 150pF/50V	3B42151T	
C 061		CERAMIC CAP.(AX) F Z 0.022µF/25V or	CDA1EZT0F223	
_		CERAMIC CAP. F Z 0.022µF/25V	1220843T	
C 062		CERAMIC CAP.(AX) Y M 0.01µF/16V	CDA1CMT0Y103	
C 301		ELECTROLYTIC CAP. 0.1μF/50V M H7 or	CE1JMASSL0R1	
		ELECTROLYTIC CAP. 0.1 µF/50V M H7	526W104S	
C 302		CERAMIC CAP.(AX) SL J 39pF/50V or	CCA1JJTSL390	
		CERAMIC CAP. SL J 39pF/50V	3S41390T	

^{*} Mylar is a registered trademark of E. I. DuPont de Nemours and Company.

Ref. No.	Mark	Description	Part No.]
C 303		ELECTROLYTIC CAP. 0.1 µF/50V M H7 or	CE1JMASSL0R1	
		ELECTROLYTIC CAP. 0.1µF/50V M H7	526W104S	l
C 304		CERAMIC CAP.(AX) B J 150pF/50V or	CCA1JJT0B151	l
		CERAMIC CAP.(AX) B K 150pF/50V or	CCA1JKT0B151	ı
		CERAMIC CAP. B J 150pF/50V or	3B41151T	ŀ
		CERAMIC CAP. B K 150pF/50V	3B42151T	ı
C 305	A,B	CERAMIC CAP.(AX) SL J 56pF/50V or	CCA1JJTSL560	L
0 000	7.,0	CERAMIC CAP. SLJ 56pF/50V	3S41560T	ı
C 305	C,D	CERAMIC CAP.(AX) SL J 47pF/50V or	CCA1JJTSL470	
0.303	0,0	CERAMIC CAP. SL J 47pF/50V	3S41470T	ı
0.000	۸.			ı
C 306	A,B	CERAMIC CAP.(AX) F Z 0.022μF/25V or	CDA1EZT0F223	
		CERAMIC CAP. F Z 0.022µF/25V	1220843T	l
C 306	C,D	CERAMIC CAP.(AX) Y M 0.01 µF/16V	CDA1CMT0Y103	l
C 307		CERAMIC CAP.(AX) F Z 0.1µF/50V	CCA1JZT0F104	
C 308		CERAMIC CAP.(AX) SL J 39pF/50V or	CCA1JJTSL390	
		CERAMIC CAP. SL J 39pF/50V	3S41390T	
C 309		CERAMIC CAP (AX) SL J 33pF/50V or	CCA1JJTSL330	
		CERAMIC CAP. SL J 33pF/50V	3S41330T	
C 310		CERAMIC CAP.(AX) SL J 33pF/50V or	CCA1JJTSL330	ŀ
		CERAMIC CAP. SL J 33pF/50V	3S41330T	
C 311		CERAMIC CAP (AX) SLJ 27pF/50V or	CCA1JJTSL270	1
		CERAMIC CAP. SL J 27pF/50V	3S41270T	
C 312		CERAMIC CAP.(AX) Y M 0.01µF/16V	CDA1CMT0Y103	
C 313		CERAMIC CAP.(AX) SL J 39pF/50V or	CCA1JJTSL390	
0010		CERAMIC CAP. SL J 39pF/50V	3S41390T	İ
C 317		CERAMIC CAP.(AX) B J.220pF/50V or	CCA1JJT0B221	
0317		CERAMIC CAP.(AX) B 0.220pf/50V or	CCA13370B221	l
		CERAMIC CAP. B J 220pF/50V or	3B41221T	l
		•		
0.040		CERAMIC CAP, B K 220pF/50V	3B42221T	
C 318		CERAMIC CAP.(AX) B J 100pF/50V or	CCA1JJT0B101	
		CERAMIC CAP.(AX) B K 100pF/50V or	CCA1JKT0B101	
		CERAMIC CAP. B J 100pF/50V or	3B41101T	
		CERAMIC CAP. B K 100pF/50V	3B42101T	
C 319		CERAMIC CAP.(AX) SL J 39pF/50V or	CCA1JJTSL390	
		CERAMIC CAP. SL J 39pF/50V	3S41390T	
C 320		CERAMIC CAP.(AX) B J 270pF/50V or	CCA1JJT0B271	
		CERAMIC CAP.(AX) B K 270pF/50V or	CCA1JKT0B271	ľ
		CERAMIC CAP. B J 270pF/50V or	3B41271T	
		CERAMIC CAP. B K 270pF/50V	3B42271T	
C 322		ELECTROLYTIC CAP. 470μF/6.3V M	CE0KMASDL471	
C 323		ELECTROLYTIC CAP. 100μF/16V M	CE1CMASDL101	
C 325		CERAMIC CAP (AX) B J 180pF/50V or	CCA1JJT0B181	
		CERAMIC CAP.(AX) B K 180pF/50V or	CCA1JKT0B181	l
		CERAMIC CAP. B J 180pF/50V or	3B41181T	
		CERAMIC CAP. B K 180pF/50V	3B42181T	
C 326		CERAMIC CAP.(AX) SL J 33pF/50V or	CCA1JJTSL330	
		CERAMIC CAP. SL J 33pF/50V	3S41330T	
C 327		CERAMIC CAP.(AX) SL J 47pF/50V or	CCA1JJTSL470	
		CERAMIC CAP. SL J 47pF/50V	3S41470T	
C 328		CERAMIC CAP.(AX) SL J 68pF/50V or	CCA1JJTSL680	l
0 020		CERAMIC CAP. SL J 68pF/50V	3S41680T	
C 329				
.0 329		CERAMIC CAP CL J 22pF/50V or	CCA1JJTSL220	
		CERAMIC CAP. SL J 22pF/50V	3S41220T	
C 330		ELECTROLYTIC CAP. 1μF/50V M H7 or	CE1JMASSL010	
		ELECTROLYTIC CAP. 1μF/50V M H7	526W105S	
C 331		CERAMIC CAP.(AX) B J 390pF/50V or	CCA1JJT0B391	
		CERAMIC CAP.(AX) B K 390pF/50V or	CCA1JKT0B391	
		CERAMIC CAP. B J 390pF/50V or	3B41391T	
		CERAMIC CAP. B K 390pF/50V	3B42391T	
C 332		CERAMIC CAP.(AX) SLJ 18pF/50V or	CCA1JJTSL180	
		CERAMIC CAP. SLJ 18pF/50V	3S41180T	
C 333		CERAMIC CAP.(AX) B J 100pF/50V or	CCA1JJT0B101	
~ ~ ~ ~		CERAMIC CAP.(AX) B K 100pF/50V or	CCA1JKT0B101	
		CERAMIC CAP. B J 100pF/50V or	3B41101T	
		CERAMIC CAP. B K 100pF/50V	3B42101T	
0.004				
C 334	L	ELECTROLYTIC CAP. 10µF/16V M	CE1CMASDL100	ı

Ref. No.	Mark	Description	Part No.	
C 335		ELECTROLYTIC CAP. 10μF/16V M H7 or	CE1CMASSL100	
		ELECTROLYTIC CAP. 10µF/16V M H7	526T106S	
C 336		CERAMIC CAP.(AX) SL J 39pF/50V or	CCA1JJTSL390	
0 000		CERAMIC CAP. SL J 39pF/50V	3S41390T	
C 337		CERAMIC CAP.(AX) F Z 0.047µF/50V	CCA1JZT0F473	
C 338		CERAMIC CAP.(AX) F Z 0.022µF/25V or	i	
C 336			CDA1EZT0F223	
0.000		CERAMIC CAP. F Z 0.022μF/25V	1220843T	
C 339		CERAMIC CAP. F Z 0.01µF/50V	CCD1JZS0F103	
C 340		ELECTROLYTIC CAP. 1µF/50V M H7 or	CE1JMASSL010	
		ELECTROLYTIC CAP. 1μF/50V M H7	526W105S	
C 344		ELECTROLYTIC CAP. 1μF/50V M H7 or	CE1JMASSL010	
		ELECTROLYTIC CAP. 1μF/50V M H7	526W105S	
C 345		SEMICONDUCTOR CAP. SR K	CDA1EKS0X103	
		0.01µF/25V or	10\/01000	
		SEMICONDUCTOR CAP. SR K 0.01 µF/25V	12Y2103S	
C 346		CERAMIC CAP.(AX) Y M 0.01µF/16V	CDA1CMT0Y103	
C 347		ELECTROLYTIC CAP. 10µF/16V M H7 or	CE1CMASSL100	
0 041		ELECTROLYTIC CAP. 10µF/16V M H7	526T106S	
C 348		ELECTROLYTIC CAP. 10HP/16V M H7 or	CE1JMASSL4R7	
U 340		ELECTROLYTIC CAP. 4.7μF/50V M H7 of	526W475S	
C 349		ELECTROLYTIC CAP. 220µF/6.3V M H7		
U 349		or	CE0KMASSL221	
		ELECTROLYTIC CAP. 220µF/6.3V M H7	526R227S	
C 350		CERAMIC CAP.(AX) F Z 0.1µF/50V	CCA1JZT0F104	
C 351		ELECTROLYTIC CAP. 4.7µF/25V M H7 or	CE1EMASSL4R7	
0 001		ELECTROLYTIC CAP. 4.7µF/25V M H7	526U475S	
C 352		CERAMIC CAP.(AX) F Z 0.1µF/50V	CCA1JZT0F104	
C 353		CERAMIC CAP.(AX) F Z 0.022µF/25V or	CDA1EZT0F223	
0 333		CERAMIC CAP. F Z 0.022µF/25V	1220843T	
C 354		ELECTROLYTIC CAP. 4.7μF/25V M H7 or	CE1EMASSL4R7	
U 304		ELECTROLYTIC CAP. 4.7μF/25V M H7 of	526U475S	
C 355			CE1JMASSL010	
C 355		ELECTROLYTIC CAP. 1μF/50V M H7 or		
0.000		ELECTROLYTIC CAP. 1μF/50V M H7	526W105S	
C 360 C 361	C,D	CERAMIC CAP.(AX) F Z 0.1µF/50V	CCA1JZT0F104	
C 362	A,B	ELECTROLYTIC CAP. 22μF/10V M CERAMIC CAP.(AX) F Z 0.047μF/50V	CE1AMASDL220 CCA1JZT0F473	
C 362	C,D	CERAMIC CAP.(AX) Y M 0.01µF/16V	CDA1CMT0Y103	
C 363	' '	CERAMIC CAP.(AX) X K 2200pF/16V or	t t	
C 303	A,B		CDA1CKT0X222 3X4C222T	
C 364	A D	CERAMIC CAP. X K 0.0022µF/16V PCB JUMPER D0.6-P5.0		
C 364	A,B		JW5.0T	
C 364	C,D	FARRITE BEAD CORE HF55BTS3.5X4,5B	LLBF00ZTE003	
C 365		CERAMIC CAP.(AX) SL J 27pF/50V or	CCA1JJTSL270	
0 000		CERAMIC CAP. SL J 27pF/50V	3S41270T	
C 366		CERAMIC CAP.(AX) SL J 27pF/50V or	CCA1JJTSL270	
0 000		CERAMIC CAP. SL J 27pF/50V	3S41270T	
C 367		CERAMIC CAP. (AX) F Z 0.1µF/50V	CCA1JZT0F104	
C 368		ELECTROLYTIC CAP. 1µF/50V M	CE1JMASDL010	
C 370		SEMICONDUCTOR CAP. SR K	CDA1EKS0X103	
03/0		0.01 µF/25V or	CDATEROUNTUS	
		SEMICONDUCTOR CAP. SR K	12Y2103S	
		0.01µF/25V	12121000	
C 371		CERAMIC CAP (AX) SL J 12pF/50V or	CCA1JJTSL120	
		CERAMIC CAP. SLJ 12pF/50V	3S41120T	
C 372		CERAMIC CAP.(AX) SL J 15pF/50V or	CCA1JJTSL150	
		CERAMIC CAP. SL J 15pF/50V	3S41150T	
C 373	1.	CERAMIC CAP.(AX) Y M 0.01 µF/16V	CDA1CMT0Y103	
C 374	A,B	ELECTROLYTIC CAP. 1µF/50V M H7 or	CE1JMASSL010	
30.7	,,,0	ELECTROLYTIC CAP. 1μF/50V M H7	526W105S	
C 380		CERAMIC CAP. (AX) B J 1000pF/50V or	CDA1JJT0B102	
0.000		CERAMIC CAP.(AX) B J 1000pF/50V or CERAMIC CAP.(AX) B K 1000pF/50V or	ŀ	
		· · · · · · · · · · · · · · · · · · ·	CDA1JKT0B102	
		CERAMIC CAP B / 0.001 µF/50V or	3B41102T	
0.000	, ,	CERAMIC CAP. B K 0.001 µF/50V	3B42102T	
C 388	A,B	CERAMIC CAP.(AX) SL J 56pF/50V or	CCA1JJTSL560	
0.000	0.5	CERAMIC CAP. SL J 56pF/50V	3S41560T	
C 390	C,D	CERAMIC CAP.(AX) SL J 68pF/50V or	CCA1JJTSL680	

C 391 C, D ELECTROLYTIC CAP. 1µF/50V M H7 or ELECTROLYTIC CAP. 47µF/63V M H7 or ELECTROLYTIC CAP. 47µF/64V M H7 or SEMICONDUCTOR CAP. SR K 0.01µF/25V or SEMICONDUCTOR CAP. SR	Ref. No.	Mark	Description	Part No.	Ref. No.	Mark	Description	Part No.
C-00	nei. No.	IVIAIK				Mark		
ELECTROLYTIC CAP 1978 W N P 2000 PMS 1978 W N P 2000 PMS	C 201	C D			100.0			
C-402 MM_ARG ARD 2009/F100V Jo MM_ARG ARD 2009/F100V JO MM_ARG ARD 2009/F100V JO ELECTROLYTIC CAR 47/F140V MM 17 or ELECTROLYTIC CAR 47/F140V MM 17 or ELECTROLYTIC CAR 47/F140V MM 17 or SEMICONDUCTOR CAP SR K ODATESSON 3 SEM	0 391	0,0			C 511		, ==== , , ,	t .
MY_AB CAP ACCEPTION 1550000000000000000000000000000000000	0.404	Ì		1	1 -		, , , , ,	
C-402	U 401	ļ, i			0312	İ	, , ,	i
ELECTROLYTIC CAS 27 July 19 M 1	0 400				0.540		•	
C-409	C 402		, , ,	1	U 513			
C.494 SEMICONDUCTOR CAP. SR K D01/pir20V or SEMICONDUCTOR CAP. SR K D01/pir20V or SEMICONDUCTOR CAP. SR K D01/pir20V or SEMICONDUCTOR CAP. SR K D01/pir20V or SEMICONDUCTOR CAP. SR K D01/pir20V or SEMICONDUCTOR CAP. SR K D01/pir20V or SEMICONDUCTOR CAP. SR K D01/pir20V or SEMICONDUCTOR CAP. SR K D01/pir20V or SEMICONDUCTOR CAP. SR K D01/pir20V or SEMICONDUCTOR CAP. SR K D01/pir20V or SEMICONDUCTOR CAP. A 7/pir20V M H 7 or SEMICONDUCTOR CAP. SR K D01/pir20V or SEMICONDUCTOR CAP. SR K D01/pir20V or SEMICONDUCTOR CAP. SR K D01/pir20V or SEMICONDUCTOR CAP. A 7/pir20V M H 7 or SEMICONDUCTOR CAP. SR K D01/pir20V o								
SEMICODUCTOR CAP SR K 1272/108S C516	C 403			CDA1EKS0X103	. 1	1		
C 404 SEMICONDUCTOR CAP SIR K 0.001pt/20V or SEMICONDUCTOR CAP SIR K 0.001pt/20V or SEMICONDUCTOR CAP SIR K 0.01pt/20V or SEMICONDUCTOR CAP SIR K	ļ		1 ' .	10\/01000	G 515		•	
SEMI-CONFIDUCTOR CAP SIX COLDIFICATION C				12121033	• 1			1.7
C. 405 ELECTROLYTIC CAP. 4.7 \(\(\)	C 404			CDA1EKS0X103	C 516			
SEMICONDUCTOR CAP SIR 129/1205S 129/	0 404			OB/TIEROO/TIO	1	ì		
ELECTROLYTIC CAP 4 7 1/19/15/9/ M PT or CEIRMASSLAR7 C	ļ		1 .	12Y2103S	·			
ELECTRICITYTIC CAP. 24,1765W M17 CECHAMSS1220 C.518 A. B CRAMIC CAP. F.2 D.0224,1765W C.001,1256P133 C.001,1256P134 C.001,1256				·			• .	
C 406 ELECTRICLYTIC CAP. 22,µF18V M17 or CERAMIC CAP. 22,µF18V M17 or CERAMIC CAP. 23,µF18V M17 or CERAMIC CAP. 24,µF18V M17 or CERA	C 405		ELECTROLYTIC CAP. 4.7µF/25V M H7 or	CE1EMASSL4R7	C 517	C,D		
ELECTROLYTIC CAP. 20pF16V M F7 C6FAMIC CAPLAN) B J 200pF16V or C6FAMIC CAPLAN) B J 200pF16V or C6FAMIC CAPLAN) B J 20pF16V or C6FAMIC CAPLAN B J 20pF16V or C6FAMIC CAPLAN B J 20pF16V or C6FAMIC CAPLAN B J 20pF16V or C6FAMIC CAPLAN B J 20pF16V or C6FAMIC CAPLAN B J 20pF16V or C6FAMIC CAPLAN B J 20pF16V or C6FAMIC CAPLAN B J 20pF16V or C6FAMIC CAPLAN B J 20pF16V or C6FAMIC CAPLAN B J 20pF16V or C6FAMIC CAPLAN B J 20pF16V or C6FAMIC CAPLAN B J 20pF16V or C6FAMIC CAPLAN B J 20pF16V or C6FAMIC CAPLAN B J 20pF16V or C6FAMIC		•	ELECTROLYTIC CAP. 4.7µF/25V M H7	526U475S	1		•	
C 408	C 406		ELECTROLYTIC CAP. 22µF/16V M H7 or	CE1CMASSL220		1	•	
CA188 CERAMIC CAP (AX) B x 220pFf50V or DEPAMIC CAP (AX) B x 220pFf50V or DEPAMIC CAP B x 220pFf50V or DEPAMIC CAP B x 220pFf50V or DEPAMIC CAP B x 220pFf50V or DEPAMIC CAP B x 220pFf50V or DEPAMIC CAP B x 220pFf50V or DEPAMIC CAP B x 220pFf50V or DEPAMIC CAP B x 220pFf50V or DEPAMIC CAP B x 220pFf50V or DEPAMIC CAP CAP (AX) K 220pFf50V or DEPAMIC CAP X x 0.002pFf50V or DEPAMIC CAP CAP (AX) K 220pFf50V or DEPAMIC CAP X x 0.002pFf50V or DEPAMIC CAP CAP CAP CAP CAP CAP CAP CAP CAP CA			ELECTROLYTIC CAP. 22µF/16V M H7	526T226S	C 518	C,D		
CERAMIC CAP, [AN] B K 220pF80V or CCA1JATT08221 SH222TT OCA1JCT082P18 CFRAMIC CAP, B K 220pF80V or CFRA	C 407		CERAMIC CAP.(AX) Y M 0.01 µF/16V	CDA1CMT0Y103				
CERAMIC CAP B J 2006/F60V or SB42221T C 519 CERAMIC CAP IN F 2006/F60V or SB42221T C 519 C 520 C 5	C 408		CERAMIC CAP.(AX) B J 220pF/50V or	CCA1JJT0B221	i.	1		
C 409 ELECTROLYTIC CAP. 01 µFI60V M C CRAMIC CAP. (A) DEFOVO OF CERAMIC CAP. (A) DEFOVO OF CERAMIC CAP. (A) SUPEROV OF CERAMIC CAP. (A) SUPERO			CERAMIC CAP.(AX) B K 220pF/50V or	CCA1JKT0B221				
C 409	}		CERAMIC CAP. B J 220pF/50V or	3B41221T	C 519		ELECTROLYTIC CAP. 10µF/16V M LL H7	CA1C100SP018
C 490 ELECTROLYTIC CAP, or Lip/F80V M CERAMIC CAP, XX K 0.002/ip/F80V or CERAMIC CAP, XX K 0.002/ip/F80V or CERAMIC CAP, XX K 0.002/ip/F80V M CHANGO CAP, XX R 0.002/ip/F80V M CHANGO CAP, XX R 0.002/ip/F80V M CHANGO CAP, XX R 0.002/ip/F80V M CERAMIC CAP, XX R 0.002/ip/F80V M CERAMIC CAP, XX R 0.002/ip/F80V M CERAMIC CAP, XX R 0.002/ip/F80V M CERAMIC CAP, XX R 0.002/ip/F80V M F OR ELECTROLYTIC CAP, 4.7µF29V M H 7 or ELECTROLYTIC CAP, 4.7µF29V M H 7 or ELECTROLYTIC CAP, 4.7µF29V M H 7 or ELECTROLYTIC CAP, 4.7µF29V M H 7 or ELECTROLYTIC CAP, 4.7µF29V M H 7 or ELECTROLYTIC CAP, 4.7µF29V M H 7 or ELECTROLYTIC CAP, 0.1µF80V M H 7 or ELECTROLYTIC CAP, 1.1µF80V M H 7 or ELE	1		CERAMIC CAP. B K 220pF/50V	3B42221T				
C 410 CERAMIC CAP (AN) F 2 0.1 µF/50V PT CAP AS JUF/50V PT CAP AS	C 409			CE1JMASDL0R1			•	
C 4111 CERAMIC CAP, (AX) F Z D. 1 µF/50V M C 2 1 A/LTOF104 C 2 1 C 2 1 P C 2 1	C 410			CDA1CKT0X272	C 520			
C 412 CERAMIC CAP (AX) X K 8000F/16V or CERAMIC CAP, X K 0.0086µF/16V or ELECTROLYTIC CAP, 47,µF/26V M H7 or ELECTROLYTIC CAP, 47,µF/26V M H7 or ELECTROLYTIC CAP, 61,µF/36V M H7 or ELECTROLYTIC CAP, 61,µF/36V M H7 or ELECTROLYTIC CAP, 61,µF/36V M H7 or CERAMIC CAP, (AX) X K 1200pF/16V or CERAMIC CAP, (AX) X K 1200pF/16V or CERAMIC CAP, (AX) X K 1200pF/16V or CERAMIC CAP, (AX) X K 1200pF/16V or CERAMIC CAP, (AX) X K 1200pF/16V or ELECTROLYTIC CAP, 10,µF/16V M H7 or ELECTR				3X4C272T				
C 412 CERAMIC CAP, (A) X K 80096/F60 V or CERAMIC CAP, (A) X K 80096/F60 V or CERAMIC CAP, (A) X K 80096/F60 V or CERAMIC CAP, (A) X K 80096/F60 V or CERAMIC CAP, (A) X K 10096/F60 V or ELECTROLYTIC CAP, 47µF259 W H 77 or ELECTROLYTIC CAP, 47µF259 W H 77 or CERAMIC CAP, (A) X L 327pF50V or CERAMIC CAP, (A) X L 327pF50V or CERAMIC CAP, (A) X L 327pF50V or CERAMIC CAP, (A) X L 327pF50V or CERAMIC CAP, (A) X L 327pF50V or CERAMIC CAP, (A) X L 327pF50V or CERAMIC CAP, (A) X L 327pF50V or CERAMIC CAP, (A) X L 327pF50V or CERAMIC CAP, (A) X L 327pF50V or CERAMIC CAP, (A) X L 327pF50V or CERAMIC CAP, (A) X L 327pF50V or CERAMIC CAP, (A) X L 327pF50V or CERAMIC CAP, (A) X L 327pF50V or CERAMIC CAP, (A) X L 320pF60V or CERAMIC CAP, (A) X L 320pF60V or CERAMIC CAP, (A) X L 320pF60V or CERAMIC CAP, (A) X K L 320pF60V or CERAMIC CAP, (A) X K L 320pF60V or CERAMIC CAP, (A) X K L 320pF60V or ELECTROLYTIC CAP, 10µF60V or CERAMIC CAP, (A) X L 320pF60V or CERAMIC CAP, (A) X L 320pF60V or ELECTROLYTIC CAP, 10µF60V or ELECTROLYTIC CAP, 10µF60V or ELECTROLYTIC CAP, 10µF60V or ELECTROLYTIC CAP, 10µF60V or CERAMIC CAP, (A) X L 320pF60V or CERAMIC	C 411		I the second of	CCA1JZT0F104			•	
C 413 CERAMIC CAP, KA D. 0088µF/16V CERAMIC CAP, X K D. 0088µF/16V CERAMIC CAP, X K D. 0088µF/16V CERAMIC CAP, X K D. 0088µF/16V CERAMIC CAP, X K D. 0088µF/16V CERAMIC CAP, X K D. 0088µF/16V CERAMIC CAP, X K D. 0088µF/16V CERAMIC CAP, X K D. 0088µF/16V CERAMIC CAP, X K D. 0088µF/16V CERAMIC CAP, X K D. 008µF/16V CERAMIC CAP, X K D. 00	1.			CE1JMASDL3R3		}	•	
C C C C C C C C C C C C C C C C C C C			1		1 '		•	CE1JMASDL2R2
C 414 ELECTROLYTIC CAP 4.7µF/25V M H7 or ELECTROLYTIC CAP 4.7µF/25V M H7 or ELECTROLYTIC CAP 0.1µF/50V M H7 or ELECTROLYTIC CAP 0.1µF/50V M H7 or ELECTROLYTIC CAP 0.1µF/50V M H7 or ERAMIC CAP, X K 0.001µF/50V or CERAMIC CAP, X K 1000pF/16V or CERAMIC CAP, X K 1000pF/16V or CERAMIC CAP, X K 1000pF/16V or ELECTROLYTIC CAP 10µF/50V M H7 or ELECTROLYTIC CAP 10µF/50V or CERAMIC CAP,(AX) B 1 0000pF/50V or CERAMIC CAP,(AX) B	1	1		3X4C682T	C 522		•	CE1CMASDL100
C 415 ELECTROLYTIC CAP .0.1 \(\(\)_{ELECTROLYTIC CAP .0.1 \(\)_{ELECTROLYTIC CAP .0.1 \(\)_{ELECTROLYTIC CAP .0.1 \(\)_{ELECTROLYTIC CAP .0.1 \(\)_{ELECTROLYTIC CAP .0.1 \(\)_{ELECTROLYTIC CAP .0.1 \(\)_{ELECTROLYTIC CAP .0.1 \(\)_{ELECTROLYTIC CAP .0.1 \(\)_{ELECTROLYTIC CAP .0.0 \(\)_{ELE	C 414			CE1EMASSL4R7	C 523	Ì,		
C 415 ELECTROLYTIC CAP, 0.1 µF/50V M H7 or CFLMMCSLDR1 C 524 CERAMIC CAP, (AX) SL J 276/F/50V or CCPAMIC CAP, (AX) X K 1800pF/16V or CDA1CKT0X122 SA4C122T CERAMIC CAP, (AX) X K 1800pF/16V or CDA1CKT0X122 SA4C122T CERAMIC CAP, (AX) X K 1800pF/16V or CDA1CKT0X122 SA4C122T CERAMIC CAP, (AX) X K 1800pF/16V or CERAMIC CAP, (AX) B J 1000pF/50V or CERAMIC CAP, (AX) B J 100pF/50V or C	•	})	•	
C 416 CERAMIC CAP. (A.) X K 1800pF/16V or CERAMIC CAP. (A.) X K 1800pF/16V or CERAMIC CAP. (A.) X K 1800pF/16V or CERAMIC CAP. (A.) X K 1800pF/16V or CERAMIC CAP. (A.) X K 1200pF/16V or CERAMIC CAP. (A.) X B K 1000pF/50V or CERAMIC CAP. (A.) X B K 100pF/50V or CERAMIC CAP. (A.	C 415			CE1JMASSL0R1	C 524			CCA1JJTSL270
C 416 CERAMIC CAP.(AX) X K 1800pF/16V or CERAMIC CAP.(AX) K L 00018µF/16V or CERAMIC CAP.(AX) B L 1000pF/16V or CERAMIC CAP. (AX) B L 100pF/16V or CER		·	1				•	
C CERAMIC CAP. X K 0.0018µF/16V CERAMIC CAP. (XX) X K 1200pF/16V or CERAMIC CAP. X K 0.0018µF/16V CERAMIC CAP. X K 0.0018µF/16V CERAMIC CAP. X K 0.0018µF/16V CERAMIC CAP. X K 0.0018µF/16V M H7 or ELECTROLYTIC CAP. 1µF/50V or CERAMIC CAP. (AX) B K 1000pF/50V or CERAMIC CAP. (AX) B K 1000p	C 416		l	B	C 525	į.		CE0KMASSL101
C 417 CERAMIC CAP.(AX) X K 1200pF/16V or CERAMIC CAP.(AX) E LECTROLYTIC CAP. 1µF/50V M H7 or ELECTROLYTIC CAP. 1µF/50V or CERAMIC CAP.(AX) B K 1000pF/50V or CERAMIC CAP.(AX) B J 1000pF/50V or CERAMIC CAP.(AX)	1	1		1	1			
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C 506 CERAMIC CAP. B K 0.001μF/50V 3B42102T C 536 C,D PCB JUMPER D0.6-P5.0 JW5.0T CE1CMASSL220 C 537 ELECTROLYTIC CAP. 22μF/16V M H7 or CE1CMASSL220 C 538 CERAMIC CAP. (AX) F Z 0.022μF/25V or CDA1JJT0B102 CERAMIC CAP. (AX) B J 1000pF/50V or CERAMIC CAP. (AX) B K 1000pF/50V or CERAMIC CAP. (AX) B K 1000pF/50V or CERAMIC CAP. (B J 0.001μF/50V or CERAMIC CAP. B J 0.001μF/50V or CERAMIC CAP. B K 0.001μF/50V or CERAMIC CAP. (AX) X K 3300pF/16V or CDA1CKT0X332 C 545 C,D CERAMIC CAP. (AX) S L 10pF/50V or CCA1JJTSL100			1 ' ' '	l i	0 000	۵,۲		
C 506 ELECTROLYTIC CAP. 22μF/16V M H7 or CE1CMASSL220 C 508 CERAMIC CAP. (22μF/16V M H7 or CE1CMASSL220 C 538 CERAMIC CAP. (AX) B J 1000pF/50V or CE1AMASDL200 CERAMIC CAP. (AX) B K 1000pF/50V or CE1AMASDL200 CERAMIC CAP. (AX) B K 1000pF/50V or CE1AMASDL220 CERAMIC CAP. (AX) Y M 0.01μF/50V M CE1AMASDL210 CERAMIC CAP. (AX) Y M 0.01μF/16V CDA1CMT0Y103 C 509 CERAMIC CAP. (AX) X K 3300pF/16V or CDA1CMT0X332 C 545 C 507 CERAMIC CAP. (AX) Y M 0.01μF/16V CDA1CMT0Y103			1		C EDE	CD		
C 508 ELECTROLYTIC CAP. 22μF/16V M H7 526T226S C 538 CERAMIC CAP.(AX) F Z 0.022μF/25V or CDA1EZT0F223 CERAMIC CAP.(AX) B J 1000pF/50V or CDA1JJT0B102 CERAMIC CAP.(AX) B K 1000pF/50V or CDA1JKT0B102 CERAMIC CAP. (AX) B K 1000pF/50V or CDA1JKT0B102 C 539 ELECTROLYTIC CAP. 22μF/10V M CE1AMASDL220 C 540 ELECTROLYTIC CAP. 1μF/50V M CE1JMASDL010 C 541 CERAMIC CAP.(AX) Y M 0.01μF/16V CDA1CMT0Y103 C 545 C,D CERAMIC CAP.(AX) SL J 10pF/50V or CCA1JJTSL100 C 541 C 545 C,D C 545 C,D C 545	0.500		· · · · · · · · · · · · · · · · · · ·	l .		0,0		
C 508 CERAMIC CAP.(AX) B J 1000pF/50V or CDA1JJT0B102 CERAMIC CAP.(AX) B K 1000pF/50V or CDA1JKT0B102 CERAMIC CAP. (AX) B K 1000pF/50V or CDA1JKT0B102 C 539 ELECTROLYTIC CAP. 22μF/10V M CE1AMASDL220 C 540 ELECTROLYTIC CAP. 1μF/50V M CE1JMASDL010 C 541 CERAMIC CAP. (AX) Y M 0.01μF/16V CDA1CMT0Y103 C 545 C,D CERAMIC CAP.(AX) SL J 10pF/50V or CCA1JJTSL100	U 506					1	· · · · · · · · · · · · · · · · · · ·	
CERAMIC CAP.(AX) B K 1000pF/50V or CDA1JKT0B102 C 539 ELECTROLYTIC CAP. 22μF/10V M CE1AMASDL220 C 540 ELECTROLYTIC CAP. 1μF/50V M CE1JMASDL010 C 540 CERAMIC CAP. B K 0.001μF/50V 3B42102T C 541 CERAMIC CAP.(AX) Y M 0.01μF/16V CDA1CMT0Y103 C 545 C,D CERAMIC CAP.(AX) SL J 10pF/50V or CCA1JJTSL100 C 545 C,D CERAMIC CAP.(AX) SL J 10pF/50V or CCA1JJTSL100 C 545					U 538			ì
CERAMIC CAP. B J 0.001μF/50V or CERAMIC CAP. B K 0.001μF/50V SB42102T C 540 CERAMIC CAP. 1μF/50V M CE1JMASDL010 C 541 CERAMIC CAP. (AX) Y M 0.01μF/16V CDA1CMT0Y103 C 545 C,D CERAMIC CAP. (AX) SL J 10pF/50V or CCA1JJTSL100 C 545 C,D CERAMIC CAP. (AX) SL J 10pF/50V or CCA1JJTSL100 C 545 C,D	C 508				0.555		•	
CERAMIC CAP. B K 0.001μF/50V 3B42102T C 541 CERAMIC CAP.(AX) Y M 0.01μF/16V CDA1CMT0Y103 C 509 CERAMIC CAP.(AX) X K 3300pF/16V or CDA1CKT0X332 C 545 C,D CERAMIC CAP.(AX) SL J 10pF/50V or CCA1JJTSL100								
C 509 CERAMIC CAP.(AX) X K 3300pF/16V or CDA1CKT0X332 C 545 C,D CERAMIC CAP.(AX) SL J 10pF/50V or CCA1JJTSL100			1	1			· · · · · · · · · · · · · · · · · · ·	1
			,	1				
CERAMIC CAP. X K 0.0033μF/16V 3X4C332T CERAMIC CAP. SL J 10pF/50V 3S41100T	C 509		1	ſ	C 545	C,D		
			CERAMIC CAP. X K 0.0033μF/16V	3X4C332T			CERAMIC CAP, SLJ 10pF/50V	3S41100T

Ref. No.	Mark	Description	Part No.
C 547		CERAMIC CAP.(AX) X K 3900pF/16V or	CDA1CKT0X392
		CERAMIC CAP. X K 0.0039µF/16V	3X4C392T
C 548		CERAMIC CAP.(AX) X K 3900pF/16V or	CDA1CKT0X392
		CERAMIC CAP. X K 0.0039µF/16V	3X4C392T
C 549		CERAMIC CAP.(AX) F Z 0.047µF/50V	CCA1JZT0F473
C 671		SEMICONDUCTOR CAP. F Z 0.1µF/25V	CDA1EZS0F104
		or	
		SEMICONDUCTOR CAP. F Z 0.1µF/25V	1220520S ·
C 701		CERAMIC CAP.(AX) F Z 0.047μF/50V	CCA1JZT0F473
C 702		CERAMIC CAP.(AX) F Z 0.047μF/50V	CCA1JZT0F473
C 703		ELECTROLYTIC CAP. 10μF/16V M	CE1CMASDL100
C 704		CERAMIC CAP.(AX) SL J 56pF/50V or	CCA1JJTSL560
		CERAMIC CAP. SL J 56pF/50V	3S41560T
C 705		ELECTROLYTIC CAP. 47µF/35V M	CE1GMASDL470
C 706		MYLAR CAP. 0.033μF/50V J or	CMA1JJS00333
		MYLAR CAP. 0.033μF/50V J	2254333S
C 707		MYLAR CAP. 0.033μF/50V J or	CMA1JJS00333
		MYLAR CAP. 0.033μF/50V J	2254333S
C 708		MYLAR CAP. 0.033μF/50V J or	CMA1JJS00333
		MYLAR CAP. 0.033μF/50V J	2254333S
C710 ·		ELECTROLYTIC CAP. 100µF/16V M	CE1CMASDL101
C 711		CERAMIC CAP (AX) B J 1000pF/50V or	CDA1JJT0B102
		CERAMIC CAP. (AX) B K 1000pF/50V or	CDA1JKT0B102
		CERAMIC CAP, B J 0.001µF/50V or	3B41102T
C 712		CERAMIC CAP. B K 0.001µF/50V CERAMIC CAP.(AX) X K 2200pF/16V or	3B42102T CDA1CKT0X222
0712		CERAMIC CAP. X K 0.0022µF/16V	3X4C222T
C 713		CERAMIC CAP. (AX) X K 2200pF/16V or	CDA1CKT0X222
0713		CERAMIC CAP. X K 0.0022µF/16V	3X4C222T
C 714	i	CERAMIC CAP.(AX) X K 2200pF/16V or	CDA1CKT0X222
0714		CERAMIC CAP. X K 0.0022µF/16V	3X4C222T
C 716		CERAMIC CAP.(AX) F Z 0.1µF/50V	CCA1JZT0F104
C 717		ELECTROLYTIC CAP. 4.7µF/25V M	CE1EMASDL4R7
C 718		ELECTROLYTIC CAP. 4.7µF/25V M	CE1EMASDL4R7
C 719		CERAMIC CAP.(AX) F Z 0.1µF/50V	CCA1JZT0F104
C 720		CERAMIC CAP.(AX) B J 1000pF/50V or	CDA1JJT0B102
		CERAMIC CAP.(AX) B K 1000pF/50V or	CDA1JKT0B102
		CERAMIC CAP. B J 0.001µF/50V or	3B41102T
		CERAMIC CAP. B K 0.001µF/50V	3B42102T
C 721		ELECTROLYTIC CAP. 1µF/50V M	CE1JMASDL010
C 722		ELECTROLYTIC CAP. 470µF/10V M	CE1AMASDL471
C 726		ELECTROLYTIC CAP. 4.7μF/25V M	CE1EMASDL4R7
C 751		ELECTROLYTIC CAP. 10μF/16V M	CE1CMASDL100
C 752		CERAMIC CAP.(AX) X K 3300pF/16V or	CDA1CKT0X332
		CERAMIC CAP. X K 0.0033µF/16V	3X4C332T
C 753		CERAMIC CAP.(AX) F Z 0.1μF/50V	CCA1JZT0F104
C 754		CERAMIC CAP.(AX) B J 470pF/50V or	CCA1JJT0B471
	,	CERAMIC CAP.(AX) B K 470pF/50V or	CCA1JKT0B471
		CERAMIC CAP. B J 470pF/50V or	3B41471T
0 755		CERAMIC CAP, B K 470pF/50V	3B42471T
C 755		CERAMIC CAP.(AX) B J 150pF/50V or	CCA1JJT0B151
]		CERAMIC CAP. (AX) B K 150pF/50V or	CCA1JKT0B151
		CERAMIC CAP, B J 150pF/50V or	3B41151T 3B42151T
0.750		CERAMIC CAP. B K 150pF/50V CERAMIC CAP. F Z 0.01µF/50V	CCD1JZS0F103
C 756	ŀ		CE1JMASDL010
C 758	CD	ELECTROLYTIC CAP. 1µF/50V M	CCA1JJT0B101
R 564	C,D	CERAMIC CAP.(AX) B J 100pF/50V or CERAMIC CAP.(AX) B K 100pF/50V or	CCA1JKT0B101
1		CERAMIC CAP. B J 100pF/50V or	3B41101T
1		CERAMIC CAP. B J 100pF/50V of CERAMIC CAP. B K 100pF/50V	3B42101T
-	L	CONNECTORS	UD421011
CN 301	A,B	STRAIGHT PIN CONNECTOR, 15P	1770635
CN 301	C,D	STRAIGHT PIN CONNECTOR, 17P	1770637
CN 501	0,5	STRAIGHT PIN CONNECTOR, 20P	1770640
CN 502		STRAIGHT PIN CONNECTOR, 3P	1770623
CN 503		STRAIGHT PIN HEADER, 2P	1740764
014 000		CHARACTER CONTINUE TO CALL	1

Ref. No.	Mark	Description	Part No.	
CN 671	Mark	STRAIGHT PIN CONNECTOR, 9P	1770629	
GIV GIV	Ļ	DIODES		
D 001	[· · · ·	RECTIFIER DIODE 1A5 or	NDQZ000001A5	
		RECTIFIER DIODE 1N4005 or	ND8Z001N4005	
		RECTIFIER DIODE 1N4005E or	NDQZ01N4005E	
		RECTIFIER DIODE 1N4005	NDQZ001N4005	
D 002		RECTIFIER DIODE 1A5 or	NDQZ000001A5	
		RECTIFIER DIODE 1N4005 or	ND8Z001N4005	
		RECTIFIER DIODE 1N4005E or	NDQZ01N4005E	
		RECTIFIER DIODE 1N4005	NDQZ001N4005	
D 003		RECTIFIER DIODE 1A5 or	NDQZ000001A5	
		RECTIFIER DIODE 1N4005 or	ND8Z001N4005	
		RECTIFIER DIODE 1N4005E or	NDQZ01N4005E	
		RECTIFIER DIODE 1N4005	NDQZ001N4005	
D 004		RECTIFIER DIODE 1A5 or	NDQZ000001A5	
		RECTIFIER DIODE 1N4005 or	ND8Z001N4005	
		RECTIFIER DIODE 1N4005E or	NDQZ01N4005E	
		RECTIFIER DIODE 1N4005	NDQZ001N4005	
D 005		RECTIFIER DIODE EG01C or	ODPZ000EG01C	
		FAST RECOVERY DIODE APO1C or	AAP01C000000	
		RECTIFIER DIODE ERA22-10Y2(TYPE I)	QDQZ0ERA2210	
	-	FAST RECOVERY DIODE RGP10K	ND8Z00RGP10K	
D 006		SWITCHING DIODE 1N4148M or	NDTZ01N4148M	
		SWITCHING DIODE 1N4148M or	QDTZ01N4148M	
		SWITCHING DIODE GMB01-BT	GMB01BT	
D 007		SWITCHING DIODE 1N4148M or	NDTZ01N4148M	
		SWITCHING DIODE 1N4148M or	QDTZ01N4148M	
		SWITCHING DIODE GMB01-BT	GMB01BT	
D 008		SWITCHING DIODE 1N4148M or	NDTZ01N4148M	
		SWITCHING DIODE 1N4148M or	QDTZ01N4148M	
		SWITCHING DIODE GMB01-BT	GMB01BT	
D 009		RECTIFIER DIODE EG01C or	QDPZ000EG01C	
		FAST RECOVERY DIODE APOIC or	AAP01C000000	
		RECTIFIER DIODE ERA22-10Y2(TYPE I)	QDQZ0ERA2210	
		or FAST RECOVERY DIODE RGP10K	ND8Z00RGP10K	
D 010		RECTIFIER DIODE RUSYX LF-C4 or	QD7Z000RU3YX	
D 010		FAST RECOVERY DIODE EGP20B or	NDQB000EGP20	
		FAST RECOVERY DIODE EGP20D	NDQD000EGP20	
D 011		SWITCHING DIODE MA188 or	QDTZ000MA188	
5011		SWITCHING DIODE BAV21	NDQZ000BAV21	
D 012		SCHOTTKY BARRIER DIODE AKO4 or	QDQZ0000AK04	
		SCHOTTKY BARRIER DIODE ERA81-	QDQZERA81004	
		004 or		
		SCHOTTKY BARRIER DIODE 11EQS04	QD4Z011EQS04	
_		or SCHOTTKY BARRIER DIODE SB040	NDO70008B040	
D 013		SWITCHING DIODE MA178 or	NDQZ000SB040 QDTZ000MA178	
D 013		SWITCHING DIODE MAT/8 01	NDQZ000BAV18	
D 016		ZENER DIODE UZ-6.8BSA	QDTA0UZ6R8BS	
D 010		ZENER DIODE UZ-6.2BSB	QDTB0UZ6R2BS	
D 051)	SWITCHING DIODE 1N4148M or	NDTZ01N4148M	
0.002		SWITCHING DIODE 1N4148M or	QDTZ01N4148M	
		SWITCHING DIODE IN4148WO	GMB01BT	
D 054			NDTZ01N4148M	
" "		SWITCHING DIODE 1N4148M or	QDTZ01N4148M	
	110	SWITCHING DIODE GMB01-BT	GMB01BT	
D 055		ZENER DIODE UZ-9.1BSC	QDTC0UZ9R1BS	
D 057		ZENER DIODE UZ-30BSA	QDTA00UZ30BS	
D 058		RECTIFIER DIODE 1A5 or	NDQZ000001A5	
		RECTIFIER DIODE 1N4005 or	ND8Z001N4005	
]		RECTIFIER DIODE 1N4005E or	NDQZ01N4005E	
		RECTIFIER DIODE 1N4005	NDQZ001N4005	
D 059		ZENER DIODE UZ-9.1BSC	QDTC0UZ9R1BS	
D 301	C,D	SWITCHING DIODE 1N4148M or	NDTZ01N4148M	
<u> </u>		SWITCHING DIODE 1N4148M or	QDTZ01N4148M	
	*		····	

Ref. No.	Mark	Description	Part No.
1101.110.	ina.ix	SWITCHING DIODE GMB01-BT	GMB01BT
D 303	٠.	SWITCHING DIODE 1N4148M or	NDTZ01N4148M
5 000		SWITCHING DIODE 1N4148M or	QDTZ01N4148M
		SWITCHING DIODE GMB01-BT	GMB01BT
D 305		SWITCHING DIODE 1N4148M or	NDTZ01N4148M
- •••		SWITCHING DIODE 1N4148M or	QDTZ01N4148M
	1	SWITCHING DIODE GMB01-BT	GMB01BT
D 307	A.B	SWITCHING DIODE 1N4148M or	NDTZ01N4148M
- ***	,	SWITCHING DIODE 1N4148M or	QDTZ01N4148M
		SWITCHING DIODE GMB01-BT	GMB01BT
D 309		SWITCHING DIODE 1N4148M or	NDTZ01N4148M
	1	SWITCHING DIODE 1N4148M or	QDTZ01N4148M
		SWITCHING DIODE GMB01-BT	GMB01BT
D 310	C,D	SWITCHING DIODE 1N4148M or	NDTZ01N4148M
	ĺ .	SWITCHING DIODE 1N4148M or	QDTZ01N4148M
		SWITCHING DIODE GMB01-BT	GMB01BT
D 501		LED SID1K10CXM or	QP4ZD1K10CXM
		LED LN66A, FN or	QP7Z000LN66A
		LED SLR-932C-20-AB or	QPQ80SLR932C
)	LED L-1543F3C	NP4ZL1543F3C
D 502		LED SLR-981A or	QPQA00SLR981
		LED SLR-981B or	QPQB00SLR981
		LED SLR-981C	QPQC00SLR981
D 503	C,D	SWITCHING DIODE 1N4148M or	NDTZ01N4148M
1	1	SWITCHING DIODE 1N4148M or	QDTZ01N4148M
		SWITCHING DIODE GMB01-BT	GMB01BT
D 504		SWITCHING DIODE 1N4148M or	NDTZ01N4148M
		SWITCHING DIODE 1N4148M or	QDTZ01N4148M
		SWITCHING DIODE GMB01-BT	GMB01BT
D 505	1	SWITCHING DIODE 1N4148M or	NDTZ01N4148M
		SWITCHING DIODE 1N4148M or	QDTZ01N4148M
		SWITCHING DIODE GMB01-BT	GMB01BT
D 506		SWITCHING DIODE 1N4148M or	NDTZ01N4148M
	l	SWITCHING DIODE 1N4148M or	QDTZ01N4148M
_ :_		SWITCHING DIODE GMB01-BT	GMB01BT
D 507		SWITCHING DIODE 1N4148M or	NDTZ01N4148M
		SWITCHING DIODE 1N4148M or	QDTZ01N4148M
	}	SWITCHING DIODE GMB01-BT	GMB01BT
D 508		SWITCHING DIODE 1N4148M or	NDTZ01N4148M
		SWITCHING DIODE 1N4148M or	QDTZ01N4148M
D 704	1	SWITCHING DIODE GMB01-BT	GMB01BT
D 701	1	ZENER DIODE UZ-6.2BSB	QDTB0UZ6R2BS
D 702		ZENER DIODE UZ-6.2BSB	QDTB0UZ6R2BS
D 703		ZENER DIODE UZ-6.2BSB	QDTB0UZ6R2BS
D 751		ZENER DIODE UZ-5.1BS	ODTZOUZ5R1BS
D 752		ZENER DIODE UZ-5.1BS ZENER DIODE UZ-5.1BS	QDTZ0UZ5R1BS QDTZ0UZ5R1BS
D 753 D 754		ZENER DIODE UZ-5.1BS	QDTZ0UZ5R1BS
D 754 D 755		SWITCHING DIODE 1N4148M or	NDTZ00Z3R1BS
D 199		SWITCHING DIODE 1N4148M or	QDTZ01N4148M
	1	SWITCHING DIODE IN4148M or SWITCHING DIODE GMB01-BT	GMB01BT
-	L	ICS	CIVIDUTOT
IC 001 A	T	PHOTO COUPLER PC120F or	QPEZ00PC120F
10 001 2:5		PHOTOCOUPLER PC120 or	QP5Z000PC120
		PHOTOCOUPLER PS2561-1M or	QPEM0PS25611
		PHOTOCOUPLER PS2561-1D or	QPED0PS25611
		PHOTOCOUPLER PS2561-1H or	QPEH0PS25611
		PHOTOCOUPLER PS2561-1W or	QPEW0PS25611
		PHOTOCOUPLER PC123F or	QPEZ00PC123F
		PHOTOCOUPLER PC123	QPEZ000PC123
IC 002		IC KIA431 or	NSZLAOZJY001
10 002		IC KA431Z or	NSZLAOZSMO01
		IC L5431 or	QSZLA0ZSY004
		IC AN1431T-(NSC)	QSBLA0ZMS001
IC 301		IC, VIDEO LA7347	QSZLA0SSY006
IC 302		IC, CCD LC89975M	QSMLA0SSY019
		11-7-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2	,

IC 401	1	Ref. No.	Mark	Description	Part No.
C 501			walk		
SY/CXP88224-119Q or MICROCONTROLLER 8BIT SY/CXP88224-115Q CSMQA0RSN050 SY/CXP88224-115Q CSMQA0RSN050 SY/CXP88132-148Q CSMQA0RSN050 SY/CXP88132-148Q CSMQA0RSN050 CSCMPARATOR KA339P or NSBLA0SSN0012 CSCMPARATOR KA339P or NSBLA0SSN0012 CSCMPARATOR KA339P or NSBLA0SSN0012 CSCMPARATOR KA329P DIP-14 or NSBLA0SSN0012 CSCMPARATOR MIM2901N NSBLA0SSN0012 CSCMPARATOR WIM2901P OSBLA0SSN0012 CST24C02AB10 CST24C02AB10 CST24C02AB10 CST24C02AB10 CST24C02AB10 CSMMA0SSN0014 CST24C02AB10 CSMMA0SSN0014 CT75012 CSMMA0SSN0014			AR		
IC 501 C,D MICROCONTROLLER 8BIT SYICXP88132-148Q SYICXP88132-149Q SYICXP8813		10 001	7.,0		Goma, ior ior ior
IC 501 C,D MICROCONTROLLER 8BIT CSMQAORSN050 IC:COMPARATOR KIA339P or IC:COMPARATOR NJM2901N IC:COP-AMP. KIA324P DIP-14 or ISBLAOSJN002 IC:OP-AMP. KIA324P DIP-14 or ISBLAOSJN002 IC:OP-AMP. KIA324P DIP-14 or ISBLAOSJN001 IC:MEMORY 244C02P or OSMMAOSXC001 IC:MEMORY 244C02B/P IC:				MICROCONTROLLER 8BIT	QSMQB0RSN051
IC 502					
IC.COMPARATOR KIA339P or		IC 501	C,D		QSMQA0RSN050
IC.COMPARATOR KA339 or IC.COMPARATOR NJM2901N IC.COMPARATOR NJM2901N IC.COMPARATOR NJM2901N IC.COMPARATOR NJM2901N IC.MEMORY Z44C02P or IC.MEMORY X24C02P or IC.MEMORY X24C02P or IC.MEMORY X24C02P IC.MEMORY		10.500			NICDI MOCEVOTO
IC.COMPARATOR NJM2901N		IC 502	-		
IC.0P-AMP. KIA324P DIP-14 or)
IC.OP-AMP, KA324		10.500			
IC. 505		10 503	ļ	·	•
IC ST24C02A-B1 or IC:MEMORY 24LC02B/P NSMMA0SMH003 CCTZ00UZT33M IC 761 IC NUU4052BD or 14D0438 IC UPD4052BC or GSMLA0SNE004 IC TC4052BP or GSMLA0SNE004 IC TC4052BP or GSMLA0SNE004 IC TA7291S (Not used C530) 14LW342 IC504B IC LB1641 (Used C530) GSBLA0SSY045 COLLS ILINE FILTER FISH HU10LF or LIBG00ZF6003 LINE FILTER FISH HU10LF or LIBG00ZF6003 LINE FILTER FISH HU10LF or LIBG00ZF6003 LINE FILTER S1MH UU10LF or LIBG00ZF6003 LIAGD INDUCTOR 22μH-K or LLARKMITU220 LEAD INDUCTOR 22μH-K or LLARKMITU220 LEAD INDUCTOR 22μH-K or LLARKMIF6220 LEAD INDUCTOR 350H-K-26T LLARKMIF6220 LARMOTEON LEAD INDUCTOR 350H-K-26T LLARKMIF6331 LO30 INDUCTOR 350H-K-26T LLARKMIF6331 LAXKOTFG820 LLAXKOTFG820 L		IC EOE	1		1
IC.MEMORY 24LC02B/P		IC 505			l -
IC 701					(
IC 761		IC 701			1
IC UPD4052BC or					l -
IC TC4052BP or IC HEF4052BP IC HEF4052BP IC HEF4052BP IC HEF4052BP IC LARCAPPHO01 IC LARCAPPH		10 /51			· ·
IC HEF4052BP					
IC504A IC TA7291S (Not used C530) I4LW342 IC504B IC LB1641 (Used C530) IC LB1645 ILNE FILTER FK0B160MH16 or LINE FILTER TLB1-015-102 LLBT00ZPC002 LINE FILTER S1MH U010LF or LLBG00ZSF003 LLBG00ZSF003 LLBG00ZSF003 LLBG00ZF7002 LINE FILTER S1MH U010.5-51MH LLBG00ZF8003 LLBAD INDUCTOR 22µH-K or LLARKMPKV220 LEAD INDUCTOR 22µH-K or LLARKMPKV220 LEAD INDUCTOR 22µH-K or LLARKMPFG220 LEAD INDUCTOR 22µH-K LLARKMPFG220 LEAD INDUCTOR 22µH-K LLARKMPFG220 LEAD INDUCTOR 21µH-K LLARKMPFG220 LEAD INDUCTOR 21µH-K LLAXKMD12000 BEAD CORE B16 RH 3.5X10X1.3 XL03010XM001 USED CORE B16 RH 3.5X10X1.3 XL03010XM001 BEAD CORE B16 RH 3.5X10X1.3 XL03010XM001 USED CORE B16 RH 3.5X10X1.3 XL030					
C504B	1	ICEO4A			
COILS L 001 ⚠ LINE FILTER FK0B160MH16 or LINE FILTER TLB1-015-102 LLBT00ZPC002 L 002 ⚠ LINE FILTER 51MH U10LF or LINE FILTER 51MH U10LF or LINE FILTER 51MH U1010-5-51MH LLBG00ZKT002 L 003 LEAD INDUCTOR 22µH-K or LLARKMUTU220 LLARKMPKV220 L EAD INDUCTOR 22µH-K or LEAD INDUCTOR 22µH-K or LEAD INDUCTOR 22µH-K or LEAD INDUCTOR 22µH-K or LEAD INDUCTOR 22µH-K or LLARKMPFG220 LLARKMPFG220 L 004 LEAD INDUCTOR 22µH-K or LLARKMPFG220 LLARKMPFG220 L 005 BEAD CORE HF70BB3.5X10X1.3 or LARKMPFG220 LLARKMPFG220 L 006 BEAD CORE B16 RH 3.5X10X1.3 or LARKMPFG220 LLARKMPFG220 L 007 BEAD CORE B16 RH 3.5X10X1.3 or LO3010XM001 MARCHMPFG220 L 008 BEAD CORE B16 RH 3.5X10X1.3 or LO3010XM001 MARCHMPFG220 L 008 BEAD CORE B16 RH 3.5X10X1.3 or LO3010XM001 MARCHMPFG220 L 008 BEAD CORE B16 RH 3.5X10X1.3 or LO3010XM001 MARCHMPFG220 L 009 BEAD CORE B16 RH 3.5X10X1.3 or LO3010XM001 MARCHMPFG220 L 001 BEAD CORE B16 RH 3.5X10X1.3 or LO3010XM001 MARCHMPFG220 L 003 INDUCTOR 30µH-K-26T or LLAXKDTKA1101 LLAXKDTKA1101 L 004					
L 001 ⚠ LINE FILTER FK0B160MH16 or LINE FILTER TL81-015-102 LO02 ⚠ LINE FILTER 51MH UU10LF or LIBGO0ZF5003 LINE FILTER 51MH UU10LF or LIBGO0ZF5003 LINE FILTER 51MH UU10LF or LIBGO0ZF5003 LINE FILTER 51MH UU10LF or LIBGO0ZF5003 LINE FILTER 51MH UU10LF or LIBGO0ZF5003 LINE FILTER 51MH UU10LF or LIBGO0ZF5003 LINE FILTER 51MH UU10LF or LIBGO0ZF5003 LINE FILTER 51MH UU10LF or LIBGO0ZF5003 LINE FILTER 51MH UU10LF or LIBGO0ZF5003 LINE FILTER 51MH UU10LF or LIBGO0ZF5003 LINE FILTER 51MH UU10LF or LIBGO0ZF5003 LIA		10004B	L	·	QGDLAUGG1040
LINE FILTER TL81-015-102 LINE FILTER 51MH UU10LF or LINE FILTER 51MH UU10LF or LINE FILTER 51MH UU10LF or LINE FILTER 51MH UU10L5-51MH LEAD INDUCTOR 22μH-K or LEAD INDUCTOR 22μH-K or LEAD INDUCTOR 22μH-K or LEAD INDUCTOR 22μH-K or LEAD INDUCTOR 22μH-K or LEAD INDUCTOR 22μH-K or LEAD INDUCTOR 22μH-K or LEAD INDUCTOR 22μH-K LEAD INDUCTOR 35010X1.3 or BEAD CORE B16 RH 3.5X10X1.3		I 001 &			1170567
LINE FILTER 51MH UU10LF or LINE FILTER 51MH UU10LF or LINE FILTER 51MH UU10LF.51MH LEAD INDUCTOR 22μH-K or LEAD INDUCTOR 22μH-K or LEAD INDUCTOR 22μH-K or LEAD INDUCTOR 22μH-K or LEAD INDUCTOR 22μH-K or LEAD INDUCTOR 22μH-K or LEAD INDUCTOR 22μH-K or LEAD INDUCTOR 22μH-K or LEAD INDUCTOR 22μH-K or LEAD INDUCTOR 22μH-K or LEAD INDUCTOR 22μH-K or LEAD INDUCTOR 22μH-K or LEAD INDUCTOR 22μH-K or LEAD INDUCTOR 22μH-K LEAD INDUCTOR 22μH-K LEAD INDUCTOR 22μH-K LEAD INDUCTOR 22μH-K LEAD INDUCTOR 22μH-K LEAD INDUCTOR 22μH-K LEAD INDUCTOR 22μH-K LLARKMPFG220 LEAD INDUCTOR 22μH-K LLARKMPFG220 LEAD INDUCTOR 22μH-K LLARKMPFG220 LEAD INDUCTOR 22μH-K LLARKMPFG220 LEAD INDUCTOR 22μH-K LLARKMPFG220 LEAD INDUCTOR 22μH-K LLARKMPFG220 LEAD INDUCTOR 21 LLARKMPFG220 LEAD INDUCTOR 21 LLARKMPFG220 LEAD INDUCTOR 21 LLARKMPFG220 LEAD INDUCTOR 21 LLARKMPFG220 LEAD INDUCTOR 21 LLARKMPFG220 LEAD INDUCTOR 32 LLARKMTU3.3 or LEAD CORE B16 RH 3.5X10X1.3 or LEAD CORE HF70BB3.5X10X1.3 or LEAD CORE HF70B		F 001 ZEZ		*	
LINE FILTER 51MH 53230 or LINE FILTER 51MH UU10.5-51MH LEAD INDUCTOR 22µH-K or LEAD INDUCTOR 22µH-K or LEAD INDUCTOR 22µH-K or LEAD INDUCTOR 22µH-K or LEAD INDUCTOR 22µH-K or LEAD INDUCTOR 22µH-K or LEAD INDUCTOR 22µH-K or LEAD INDUCTOR 22µH-K or LEAD INDUCTOR 22µH-K or LEAD INDUCTOR 22µH-K or LEAD INDUCTOR 22µH-K or LEAD INDUCTOR 22µH-K OLLARKMPKV220 LEAD INDUCTOR 22µH-K or LEAD INDUCTOR 22µH-K or LEAD INDUCTOR 22µH-K OLLARKMPKV220 LEAD INDUCTOR 22µH-K OLLARKMPKV220 LEAD INDUCTOR 22µH-K OLLARKMPFG220 LEAD INDUCTOR 21µH-K OLLARKMPFG220 LEAD INDUCTOR 13.5X10X1.3 or DEAD CORE B16 RH 3.5X10X1.3 or DE	1	I nno 🛦		l control of the cont	
LINE FILTER 51MH UU10.5-51MH LEAD INDUCTOR 22µH-K or LEAD INDUCTOR 16 16 16 17.05 or BEAD CORE B16 RH 3.5X10X1.3 or LO3010XM001 BEAD CORE B16 RH 3.5X10X1.3 or BEAD CORE B16 RH 3.		L 002 Z:S	ĺ	I '	
L003 LEAD INDUCTOR 22μH-K or LEAD INDUCTOR 35μH-K or BEAD CORE B16 RH 3.5X10X1.3 or XL03010XM001 XL03010XM001 L 006 BEAD CORE HF70BB3.5X10X1.3 or BEAD CORE HF70BB3.5X10X1.3 or BEAD CORE HF70BB3.5X10X1.3 or BEAD CORE HF70BB3.5X10X1.3 or BEAD CORE B16 RH 3.5X10X1.3 or BEAD CORE B16 RH 3.5X10X1.3 xL03010XM001 XL03010XM001 L 008 BEAD CORE B16 RH 3.5X10X1.3 or BEAD CORE B16 RH 3.5X10X1.3 or BEAD CORE B16 RH 3.5X10X1.3 or BEAD CORE B16 RH 3.5X10X1.3 xL03010XM001 XL03010XM001 L 051 PCB JUMPER D0.6-P5.0 JW5.0T JW5.0T L 052 INDUCTOR 47μH-K LLAXKCPFG470 L 301 INDUCTOR 180μH-K-26T or INDUCTOR 180μH-K-26T or INDUCTOR 330μH-K-26T or INDUCTOR 330μH-K-26T LLAXKATTU31 L 304 INDUCTOR 30μH-K-26T or INDUCTOR 30μH-K-26T or INDUCTOR 30μH-K-26T or INDUCTOR 30μH-K-26T or INDUCTOR 30μH-K-26T or INDUCTOR 4.7μH-K-5FT or INDUCTOR 4.				the state of the s	
LEAD INDUCTOR 22µH-K or LEAD INDUCTOR 22µH-K LEAD INDUCTOR 22µH-K LEAD INDUCTOR 22µH-K or LEAD INDUCTOR 22µH-K or LEAD INDUCTOR 22µH-K or LEAD INDUCTOR 22µH-K or LEAD INDUCTOR 22µH-K LEAD INDUCTOR 22µH-K LLARKMPKV220 LEAD INDUCTOR 22µH-K LLARKMPKV220 LEAD INDUCTOR 22µH-K LLARKMPFG220 LEAD INDUCTOR 22µH-K LLARKMPFG220 LO05 BEAD CORE HF70BB3.5X10X1.3 or LO06 BEAD CORE B16 RH 3.5X10X1.3 VL03010XM001 BEAD CORE B16 RH 3.5X10X1.3 VL03010XM001 BEAD CORE B16 RH 3.5X10X1.3 or BEAD CORE B16 RH 3.5X10X1.3 VL03010XM001 BC0010XM001 BC001		1 003			
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L 004 LEAD INDUCTOR 22μH-K or LEARKMPKV220 LEAD INDUCTOR 22μH-K or LEARKMPKV220 LEAD INDUCTOR 22μH-K or LEARKMPKV220 LEAD INDUCTOR 22μH-K ULARKMPFG220 READ CORE B16 RH 3.5X10X1.3 or READ READ CORE B16 RH 3.5X10X1.3 or READ READ READ READ READ READ READ READ			<u> </u>	•	l =
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L 007 BEAD CORE HF70BB3.5X10X1.3 or BEAD CORE B16 RH 3.5X10X1.3 XL03010TE001 XL03010XM001 L 008 BEAD CORE HF70BB3.5X10X1.3 or BEAD CORE B16 RH 3.5X10X1.3 XL03010XM001 L 051 PCB JUMPER D0.6-P5.0 JW5.0T L 053 INDUCTOR 47µH-K LLAXKCPFG470 L 301 INDUCTOR 180µH-K-26T or INDUCTOR 180µH-K-26T LLAXKDTKA181 L 302 INDUCTOR 82µH-K LLAXKCPFG820 L 303 INDUCTOR 330µH-K-26T or INDUCTOR 330µH-K-26T LLAXKOTKA331 L 304 INDUCTOR 56µH-K LLAXKOTKA100 L 305 INDUCTOR 10µH-K-26T or INDUCTOR 10µH-K-26T LLAXKOTKA310 L 306 INDUCTOR 27µH-K LLAXKOTKA331 L 308 INDUCTOR 330µH-K-26T or INDUCTOR 330µH-K-26T LLAXKOTKA331 L 309 INDUCTOR 4.7µH-K-5FT or INDUCTOR 4.7µH-K-5FT or INDUCTOR 4.7µH-K LLAKKOTKA331 L 310 INDUCTOR 68µH-K LLAKKOPFG880 L 311 INDUCTOR 68µH-K LLAXKCPFG680 L 312 INDUCTOR 47µH-K LLAXKCPFG860 L 311 INDUCTOR 47µH-K-5FT or INDUCTOR 47µH-K-5FT or INDUCTOR 47µH-K-5FT or INDUCTOR 47µH-K-5FT or INDUCTOR 47µH-K-5FT or INDUCTOR 47µH-K-5FT or INDUCTOR 47µH-K-5FT or INDU		L 006			XL03010TE001
BEAD CORE B16 RH 3.5X10X1.3 XL03010XM001				BEAD CORE B16 RH 3.5X10X1.3	XL03010XM001
L 008 BEAD CORE HF70BB3.5X10X1.3 or XL03010TE001		L 007		BEAD CORE HF70BB3.5X10X1.3 or	XL03010TE001
BEAD CORE B16 RH 3.5X10X1.3 XL03010XM001				BEAD CORE B16 RH 3.5X10X1.3	XL03010XM001
L 051		L 008		BEAD CORE HF70BB3.5X10X1.3 or	XL03010TE001
L 053 INDUCTOR 47µH-K LLAXKCPFG470 L 301 INDUCTOR 180µH-K-26T or LLAXKDTKA181 INDUCTOR 180µH-K-26T LLAXKATTU181 L 302 INDUCTOR 82µH-K LLAXKCPFG820 L 303 INDUCTOR 330µH-K-26T or LLAXKDTKA331 INDUCTOR 330µH-K-26T LLAXKATTU331 L 304 INDUCTOR 56µH-K LLAXKCPFG560 L 305 INDUCTOR 10µH-K-26T or LLAXKATTU100 INDUCTOR 10µH-K-26T LLAXKATTU100 L 306 INDUCTOR 27µH-K LLAXKOPFG270 L 308 INDUCTOR 330µH-K-26T or LLAXKOTKA331 INDUCTOR 330µH-K-26T or LLAXKOTKA331 INDUCTOR 4.7µH-K-5FT or LLAKKDSKA4R7 INDUCTOR 4.7µH-K-5FT or LLARKDSKA4R7 INDUCTOR 4.7µH-K LLAXKCPFG880 L 310 INDUCTOR 68µH-K LLAXKCPFG880 L 311 INDUCTOR 27µH-K LLAXKCPFG880 L 312 INDUCTOR 47µH-K-5FT or LLAXKCPFG880 L 316 INDUCTOR 47µH-K-5FT or LLAKKSPS470 INDUCTOR 47µH-K-5FT or LLARKBSTU470 INDUCTOR 47µH-K				BEAD CORE B16 RH 3.5X10X1.3	XL03010XM001
L 301		L 051		PCB JUMPER D0.6-P5.0	JW5.0T
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L 302				INDUCTOR 180µH-K-26T	LLAXKATTU181
INDUCTOR 330µH-K-26T LLAXKATTU331 L 304 INDUCTOR 56µH-K LLAXKCPFG560 L 305 INDUCTOR 10µH-K-26T LLAXKDTKA100 L 306 INDUCTOR 27µH-K LLAXKCPFG270 L 308 INDUCTOR 330µH-K-26T LLAXKDTKA331 INDUCTOR 330µH-K-26T LLAXKATTU331 L 309 INDUCTOR 4.7µH-K-5FT or LLAKKDSKA4R7 INDUCTOR 4.7µH-K-5FT or LLARKDSKA4R7 INDUCTOR 4.7µH-K-5FT or LLARKMSFS4R7 INDUCTOR 4.7µH-K LLAXKCPFG4R7 INDUCTOR 4.7µH-K LLAXKCPFG4R7 L 310 INDUCTOR 68µH-K LLAXKCPFG880 L 311 INDUCTOR 27µH-K LLAXKCPFG270 L 312 INDUCTOR 68µH-K LLAXKCPFG880 L 316 INDUCTOR 47µH-K-5FT or LLARKDSKA470 INDUCTOR 47µH-K-5FT or LLARKDSKA470 INDUCTOR 47µH-K-5FT or LLARKMSFS470 INDUCTOR 47µH-K-5FT or		L 302	1		LLAXKCPFG820
L 304		L 303		INDUCTOR 330µH-K-26T or	LLAXKDTKA331
L 305 INDUCTOR 10µH-K-26T or LLAXKDTKA100 INDUCTOR 10µH-K-26T LLAXKATTU100 L 306 INDUCTOR 27µH-K LLAXKCPFG270 LLAXKATTU331 INDUCTOR 330µH-K-26T LLAXKATTU331 L 309 INDUCTOR 4.7µH-K-5FT or LLARKDSKA4R7 INDUCTOR 4.7µH-K-5FT or LLARKDSKA4R7 INDUCTOR 4.7µH-K-5FT or LLARKMSFS4R7 INDUCTOR 4.7µH-K LLAXKCPFG4R7 INDUCTOR 68µH-K LLAXKCPFG4R7 L 310 INDUCTOR 27µH-K LLAXKCPFG880 L 311 INDUCTOR 27µH-K LLAXKCPFG880 L 312 INDUCTOR 68µH-K LLAXKCPFG880 L 316 INDUCTOR 47µH-K-5FT or LLARKDSKA470 INDUCTOR 47µH-K-5FT or LLARKDSKA470 INDUCTOR 47µH-K-5FT or LLARKMSFS470 INDUCTOR 47µH-K LLAXKCPFG470 I				INDUCTOR 330µH-K-26T	LLAXKATTU331
L 306	Ì	L 304		INDUCTOR 56µH-K	LLAXKCPFG560
L 306	ļ	L 305		INDUCTOR 10µH-K-26T or	LLAXKDTKA100
L 308 INDUCTOR 330µH-K-26T or INDUCTOR 330µH-K-26T or INDUCTOR 330µH-K-26T LLAXKDTKA331 L 309 INDUCTOR 4.7µH-K-5FT or INDUCTOR 4.7µH-K-5FT or INDUCTOR 4.7µH-K-5FT or INDUCTOR 4.7µH-K-5FT or INDUCTOR 4.7µH-K LLARKBSTU4R7 L 310 INDUCTOR 68µH-K LLAXKCPFG4R7 L 311 INDUCTOR 27µH-K LLAXKCPFG270 L 312 INDUCTOR 68µH-K LLAXKCPFG680 L 316 INDUCTOR 68µH-K-5FT or INDUCTOR 47µH-K-5FT or INDUCTOR 47µH-K LLARKBSTU470			<u> </u>	INDUCTOR 10µH-K-26T	LLAXKATTU100
INDUCTOR 330µH-K-26T LLAXKATTU331		L 306		INDUCTOR 27µH-K	LLAXKCPFG270
L 309		L 308		INDUCTOR 330µH-K-26T or	LLAXKDTKA331
INDUCTOR 4.7μH-K-5FT or LLARKBSTU4R7 INDUCTOR 4.7μH-K-5FT or LLARKMSFS4R7 INDUCTOR 4.7μH-K LLAXKCPFG4R7 INDUCTOR 68μH-K LLAXKCPFG680 L311 INDUCTOR 68μH-K LLAXKCPFG270 L312 INDUCTOR 68μH-K LLAXKCPFG680 L316 INDUCTOR 47μH-K-5FT or LLAXKCPFG680 INDUCTOR 47μH-K-5FT or LLARKBSTU470 INDUCTOR 47μH-K-5FT or LLARKMSFS470 INDUCTOR 47μH-K LLAXKCPFG470 INDU	i		}	INDUCTOR 330µH-K-26T	LLAXKATTU331
INDUCTOR 4.7μH-K-5FT or LLARKMSFS4R7 INDUCTOR 4.7μH-K LLAXKCPFG4R7 L310 INDUCTOR 68μH-K LLAXKCPFG680 L311 INDUCTOR 27μH-K LLAXKCPFG270 L312 INDUCTOR 68μH-K LLAXKCPFG680 L316 INDUCTOR 47μH-K-5FT or LLAXKCPFG680 INDUCTOR 47μH-K-5FT or LLARKBSTU470 INDUCTOR 47μH-K-5FT or LLARKMSFS470 INDUCTOR 47μH-K LLAXKCPFG470 INDUC		L 309		INDUCTOR 4.7µH-K-5FT or	LLARKDSKA4R7
INDUCTOR 4.7μH-K-5FT or LLARKMSFS4R7 INDUCTOR 4.7μH-K LLAXKCPFG4R7 L310 INDUCTOR 68μH-K LLAXKCPFG680 L311 INDUCTOR 27μH-K LLAXKCPFG270 L312 INDUCTOR 68μH-K LLAXKCPFG680 L316 INDUCTOR 47μH-K-5FT or LLAXKCPFG680 INDUCTOR 47μH-K-5FT or LLARKBSTU470 INDUCTOR 47μH-K-5FT or LLARKMSFS470 INDUCTOR 47μH-K LLAXKCPFG470 INDUC					LLARKBSTU4R7
INDUCTOR 4.7μH-K				•	LLARKMSFS4R7
L 311 INDUCTOR 27μH-K LLAXKCPFG270 L 312 INDUCTOR 68μH-K LLAXKCPFG680 L 316 INDUCTOR 47μH-K-5FT or LLARKDSKA470 INDUCTOR 47μH-K-5FT or LLARKDSTU470 INDUCTOR 47μH-K-5FT or LLARKMSFS470 INDUCTOR 47μH-K LLAXKCPFG470				1	LLAXKCPFG4R7
L 311 INDUCTOR 27μH-K LLAXKCPFG270 L 312 INDUCTOR 68μH-K LLAXKCPFG680 L 316 INDUCTOR 47μH-K-5FT or LLARKDSKA470 INDUCTOR 47μH-K-5FT or LLARKBSTU470 INDUCTOR 47μH-K-5FT or LLARKMSFS470 INDUCTOR 47μH-K LLAXKCPFG470		L310		INDUCTOR 68µH-K	LLAXKCPFG680
L 312 INDUCTOR 68μH-K LLAXKCPFG680 L 316 INDUCTOR 47μH-K-5FT or LLARKDSKA470 INDUCTOR 47μH-K-5FT or LLARKBSTU470 INDUCTOR 47μH-K-5FT or LLARKMSFS470 INDUCTOR 47μH-K LLAXKCPFG470					LLAXKCPFG270
L 316 INDUCTOR 47µH-K-5FT or LLARKDSKA470 INDUCTOR 47µH-K-5FT or LLARKBSTU470 INDUCTOR 47µH-K-5FT or LLARKMSFS470 INDUCTOR 47µH-K LLAXKCPFG470		L312		•	LLAXKCPFG680
INDUCTOR 47μH-K-5FT or LLARKBSTU470 INDUCTOR 47μH-K-5FT or LLARKMSFS470 INDUCTOR 47μH-K LLAXKCPFG470		L 316		An extending and the	LLARKDSKA470
INDUCTOR 47μH-K-5FT or LLARKMSFS470 INDUCTOR 47μH-K LLAXKCPFG470					LLARKBSTU470
INDUCTOR 47µH-K LLAXKCPFG470				•	LLARKMSFS470
L 318 INDUCTOR 10µH-K-26T or LLAXKDTKA100				INDUCTOR 47µH-K	LLAXKCPFG470
		L 318		INDUCTOR 10µH-K-26T or	LLAXKDTKA100

Part No. NQS10KTC3199 NQSY0KSC2785 NQSG0KSC2785 C536SEZ C536SFZ NQSY0KTC3193 C2839EZ C2839FZ NQSY0KTC3193 C2839EZ C2839FZ NQSY0KTC3193 C2839EZ C2839FZ NQSY0KTC3193 C2839EZ C2839FZ NQSY0KTC3193 C2839EZ C439FZ NQSY0KTC3193 C4839EZ
NQSY0KSC2785 NQSG0KSC2785 NQSG0KSC2785 C536SEZ C536SFZ NQSY0KTC3193 C2839EZ C2839FZ NQSY0KTC3193 C2839EZ C2839FZ NQSZ0KRC106M NQSZ0KRC106M SR1214 NQSZ0KSR1214 SC4133 NQSY0KTA1266 NQS40KTA1266 A1317SZ
NQSG0KSC2785 C536SEZ C536SFZ NQSY0KTC3193 C2839EZ C2839FZ NQSY0KTC3193 C2839EZ C2839FZ NQSZ0KRC106M NQSZ0KRC106M SR1214 NQSZ0KSR1214 C4133 QQSZ02SC4133 NQSY0KTA1266 NQS40KTA1266 A1317SZ
C536SEZ C536SFZ NQSY0KTC3193 C2839EZ C2839FZ NQSY0KTC3193 C2839EZ C2839FZ RC106M NQSZ0KRC106M SR1214 NQSZ0KSR1214 SC4133 QQSZ02SC4133 NQSY0KTA1266 NQS40KTA1266 A1317SZ
C536SFZ NQSY0KTC3193 C2839EZ C2839FZ NQSY0KTC3193 C2839EZ C2839FZ NQSZ0KRC106M NQSZ0KRC106M SR1214 NQSZ0KSR1214 SC4133 QQSZ02SC4133 NQSY0KTA1266 NQS40KTA1266 A1317SZ
NQSY0KTC3193 C2839EZ C2839FZ NQSY0KTC3193 C2839EZ C2839FZ NQSZ0KRC106M NQSZ0KRC106M NQSZ0KSR1214 C4133 QQSZ02SC4133 NQSY0KTA1266 NQS40KTA1266 A1317SZ
C2839EZ C2839FZ NQSY0KTC3193 C2839EZ C2839FZ NQSZ0KRC106M NQSZ0KSR1214 NQSZ0KSR1214 C4133 QQSZ02SC4133 NQSY0KTA1266 NQS40KTA1266 A1317SZ
C2839FZ NQSY0KTC3193 C2839EZ C2839FZ NQSZ0KRC106M NQSZ0KSR1214 NQSZ0KSR1214 CC4133 QQSZ02SC4133 NQSY0KTA1266 NQS40KTA1266 A1317SZ
NQSY0KTC3193 C2839EZ C2839FZ NQSZ0KRC106M NQSZ0KSR1214 NQSZ0KSR1214 C4133 QQSZ02SC4133 NQSY0KTA1266 NQS40KTA1266 A1317SZ
C2839EZ C2839FZ NQSZ0KRC106M NQSZ0KSR1214 NQSZ0KSR1214 C4133 QQSZ02SC4133 NQSY0KTA1266 NQS40KTA1266 A1317SZ
C2839FZ NQSZ0KRC106M NQSZ0KSR1214 NQSZ0KSR1214 CC4133 QQSZ02SC4133 NQSY0KTA1266 NQS40KTA1266 A1317SZ
RC106M NQSZ0KRC106M SR1214 NQSZ0KSR1214 SC4133 QQSZ02SC4133 NQSY0KTA1266 NQS40KTA1266 A1317SZ
SR1214 NQSZ0KSR1214 GC4133 QQSZ02SC4133 NQSY0KTA1266 NQS40KTA1266 A1317SZ
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NQSY0KTA1267
NQS10KTA1267
NQSY0KSA1175
NQSG0KSA1175
A608SEZ
A608SFZ
NQSY0KTA1267
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RC103M NQSZ0KRC103M
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SR1203 NQSZ0KSR1203
C3400 C3400Z
RC103M NQSZ0KRC103M
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SR1203 NQSZ0KSR1203
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C3400 C3400Z
NQSY0KTC3193
C2839EZ
C2839FZ
NQSY0KTC3193
C2839EZ
C2839FZ
QSC3331TNPAA
QSC3331UNPAA
2-B QP4B0ST316R2
2-B QP4B0ST316R2
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/-p: UP46051316B2
2-B QP4B0ST316R2 NQSY0KTA1267
NQSY0KTA1267
NQSY0KTA1267 NQS10KTA1267
NQSY0KTA1267 NQS10KTA1267 NQSY0KSA1175
NQSY0KTA1267 NQS10KTA1267 NQSY0KSA1175 NQSG0KSA1175
NQSY0KTA1267 NQS10KTA1267 NQSY0KSA1175 NQSG0KSA1175 A608SEZ
NQSY0KTA1267 NQS10KTA1267 NQSY0KSA1175 NQSG0KSA1175 A608SEZ A608SFZ
NQSY0KTA1267 NQS10KTA1267 NQSY0KSA1175 NQSG0KSA1175 A608SEZ
NQSY0KTA1267 NQS10KTA1267 NQSY0KSA1175 NQSG0KSA1175 A608SEZ A608SFZ NQSZ0KRC103M
NQSY0KTA1267 NQS10KTA1267 NQSY0KSA1175 NQSG0KSA1175 A608SEZ A608SFZ
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Ref. No.	Mark	Description	Part No.
nei. No.	IVIGIA	RES. BUILT-IN TRANSISTOR 2SC3400	C3400Z
Q 506		RES. BUILT-IN TRANSISTOR KRA103M	NQSZ0KRA103M
Q 500		or	14GOZOKI IATOOW
		RES. BUILT-IN TRANSISTOR KSR2203	NQSZ0KSR2203
ļ		or	
	1	RES. BUILT-IN TRANSISTOR 2SA1346	A1346Z
Q 507		RES. BUILT-IN TRANSISTOR KRC103M	NQSZ0KRC103M
		OF	NOCZOVODAGO
	} ·	RES. BUILT-IN TRANSISTOR KSR1203	NQSZ0KSR1203
		RES. BUILT-IN TRANSISTOR 2SC3400	C3400Z
Q 508		TRANSISTOR KTC3199(BL) or	NQS50KTC3199
		TRANSISTOR KSC2785(L) or	NQSL0KSC2785
		TRANSISTOR 2SC536SP(G)	QQSGSC536SPA
Q 702		TRANSISTOR KTC3199(Y) or	NQSY0KTC3199
		TRANSISTOR KTC3199(GR) or	NQS10KTC3199
		TRANSISTOR KSC2785(Y) or	NQSY0KSC2785
	Ì	TRANSISTOR KSC2785(G) or	NQSG0KSC2785
		TRANSISTOR 2SC536SP(E) or	C536SEZ
		TRANSISTOR 2SC536SP(F)	C536SFZ
Q 703		RES. BUILT-IN TRANSISTOR KSR2205 or	NQSZ0KSR2205
		RES. BUILT-IN TRANSISTOR 2SA1654	QQSZ02SA1654
Q 704		RES. BUILT-IN TRANSISTOR 25A1694	NQSZ0KSR2205
Q 104		or	TTGGCZGROTIZZOO
l		RES. BUILT-IN TRANSISTOR 2SA1654	QQSZ02SA1654
Q 705		RES. BUILT-IN TRANSISTOR KSR2205	NOSZ0KSR2205
		or	0007000 (1054
0.754		RES. BUILT-IN TRANSISTOR 2SA1654	QQSZ02SA1654
Q 751		TRANSISTOR KTC3199(Y) or TRANSISTOR KTC3199(GR) or	NQSY0KTC3199 NQS10KTC3199
		TRANSISTOR KICS199(GH) or	NQSY0KSC2785
		TRANSISTOR KSC2785(G) or	NQSG0KSC2785
		TRANSISTOR 2SC536SP(E) or	C536SEZ
	}	TRANSISTOR 2SC536SP(F)	C536SFZ
		RESISTORS	
R 002		FIXED METAL OXIDE FILM RES. 2W J	1330513
		82K Ω or	DN00 17070000
		FIXED METAL OXIDE FILM RES. 2W J 82K Ω or	RN02JZPZ0823
		FIXED METAL OXIDE FILM RES. 2W J	RN02823KE009
		82K Ω	
R.004		CARBON RES. 1/4W J 82K Ω	RCX4JATZ0823
R 005		CARBON RES. 1/4W J 82K Ω	RCX4JATZ0823
R 006		CARBON RES. 1/4W J 82K Ω	RCX4JATZ0823
R 007		CARBON RES. 1/4W J 82K Ω	RCX4JATZ0823
R 008		CARBON RES. 1/4W J 39 Ω CARBON RES. 1/4W J 39 Ω	RCX4JATZ0390
R 009		CARBON RES. 1/4W J 39 Ω	RCX4JATZ0390 RCX4JATZ0390
R 010 R 011		CARBON RES. 1/4W J 3.9K Ω	RCX4JATZ0390 RCX4JATZ0392
R 012		CARBON RES. 1/4W J 1.K Ω	RCX4JATZ0102
R 017		CARBON RES. 1/4W J 1K Ω	RCX4JATZ0102
R 018		CARBON RES. 1/4W J 2.7 Ω	RCX4JATZ02R7
R 019	~-	CARBON RES. 1/4W J 2.7 Ω	RCX4JATZ02R7
R 020		CARBON RES. 1/4W J 470 Ω or	RCX4JATZ0471
		CARBON RES. 1/6W J 470 Ω	RCX6JATZ0471
R 021		CARBON RES. 1/4W J 1K Ω	RCX4JATZ0102
R 023		CARBON RES. 1/4W G 2.2K Ω	RCX4GATZ0222
R 024		CARBON RES. 1/4W J 820 Ω or	RCX4JATZ0821
		CARBON RES. 1/6W J 820 Ω	RCX6JATZ0821
R 025	1	CARBON RES. 1/4W G 2K Ω	RCX4GATZ0202
R 051		CARBON RES. 1/4W J 68K Ω	RCX4JATZ0683
R 052		CARBON RES. 1/4W J 3.9K Ω	RCX4JATZ0392
1		LOADDON DEG ANNA LARKS	DOVA IATZOAZO
R 054		CARBON RES. 1/4W J 4.7K Ω	RCX4JATZ0472
R 055		CARBON RES. 1/4W J 4.7K Ω	RCX4JATZ0472
R 055 R 056		CARBON RES. 1/4W J 4.7K Ω CARBON RES. 1/4W J 1.5K Ω	RCX4JATZ0472 RCX4JATZ0152
R 055		CARBON RES. 1/4W J 4.7K Ω	RCX4JATZ0472

Ref. No.	Mark	Description	Part No.
R 058	IVIAIN	CARBON RES. 1/4W J 100K Ω or	RCX4JATZ0104
11.000		CARBON RES. 1/6W J 100K Ω	RCX6JATZ0104
R 059		CARBON RES. 1/4W J 820 Ω or	RCX4JATZ0821
11 000		CARBON RES. 1/6W J 820 Ω	RCX6JATZ0821
R 060		PCB JUMPER D0.6-P5.0	JW5.0T
R 061		CARBON RES. 1/4W J 100K Ω or	RCX4JATZ0104
111001		CARBON RES. 1/6W J 100K Ω	RCX6JATZ0104
R 062		CARBON RES. 1/4W J 820 Ω or	RCX4JATZ0821
11 002		CARBON RES. 1/6W J 820 Ω	RCX6JATZ0821
R 064		CARBON RES. 1/4W J 47K Ω or	RCX4JATZ0473
	}	CARBON RES. 1/6W J 47K Ω	RCX6JATZ0473
R 065		CARBON RES. 1/4W J 1K Ω	RCX4JATZ0102
R 066		CARBON RES. 1/4W J 56 Ω or	RCX4JATZ0560
	1	CARBON RES. 1/6W J 56 Ω	RCX6JATZ0560
R 067		CARBON RES: 1/4W J 4.7K Ω°	RCX4JATZ0472
R 073		CARBON RES. 1/4W J 2.2K Ω or	RCX4JATZ0222
1	'	CARBON RES. 1/6W J 2.2K Ω	RCX6JATZ0222
R 074	Ì	CARBON RES. 1/4W J 10K Ω	RCX4JATZ0103
R 075		PCB JUMPER D0.6-P5.0	JW5.0T
R-301		CARBON RES. 1/4W J 5.6K Ω or	RCX4JATZ0562
	•	CARBON RES. 1/6W J 5.6K Ω	RCX6JATZ0562
R 302		CARBON RES. 1/4W J 1.2K Ω or	RCX4JATZ0122
	**.	CARBON RES. 1/6W J 1.2K Ω	RCX6JATZ0122
R 303		CARBON RES. 1/4W J 1K Ω	RCX4JATZ0102
R 304	,	CARBON RES. 1/4W J 820 Ω or	RCX4JATZ0821
		CARBON RES. 1/6W J 820 Ω	RCX6JATZ0821
R 305	ŀ	CARBON RES. 1/4W J 3.9K Ω	RCX4JATZ0392
R 306		CARBON RES. 1/4W J 1.5K Ω	RCX4JATZ0152
R 307		CARBON RES. 1/4W J 3.9K Ω	RCX4JATZ0392
R 308		CARBON RES. 1/4W J 1.5K·Ω	RCX4JATZ0152
R 309		CARBON RES. 1/4W J 1K Ω	RCX4JATZ0102
R 310		CARBON RES. 1/4W J 390 Ω or	RCX4JATZ0391
R 311		CARBON RES. 1/6W J 390 Ω	RCX6JATZ0391 RCX4JATZ0102
R 312		CARBON RES. 1/4W J 1R S2 CARBON RES. 1/4W J 390 Ω or	RCX4JATZ0391
N 312		CARBON RES. 1/6W J 390 Ω	RCX6JATZ0391
R 313		CARBON RES. 1/4W J 680 Ω	RCX4JATZ0681
R 315	A,B	CARBON RES. 1/4W J 330 Ω or	RCX4JATZ0331
111010	,,,,,	CARBON RES. 1/6W J 330 Ω	RCX6JATZ0331
R 315	C,D	CARBON RES. 1/4W J 270 Ω or	RCX4JATZ0271
	-,-	CARBON RES. 1/6W J 270 Ω	RCX6JATZ0271
R 316		CARBON RES. 1/4W J 1.2K Ω or	RCX4JATZ0122
		CARBON RES. 1/6W J 1.2K Ω	RCX6JATZ0122
R 317		CARBON RES. 1/4W J 470 Ω or	RCX4JATZ0471
		CARBON RES. 1/6W J 470 Ω	RCX6JATZ0471
R 319		CARBON RES. 1/4W J 27K Ω or	RCX4JATZ0273
		CARBON RES. 1/6W J 27K Ω	RCX6JATZ0273
R 320		CARBON RES. 1/4W J 8.2K Ω or	RCX4JATZ0822
1	\	CARBON RES. 1/6W J 8.2K Ω	RCX6JATZ0822
R 321		CARBON RES. 1/4W J 6.8K Ω or	RCX4JATZ0682
1 m	-	CARBON RES. 1/6W J 6.8K Ω	RCX6JATZ0682
R 322		CARBON RES. 1/4W J 470 Ω or	RCX4JATZ0471
		CARBON RES. 1/6W J 470 Ω	RCX6JATZ0471
R 323		PCB JUMPER D0.6-P5.0	JW5.0T
R 324		CARBON RES. 1/4W J 2.2K Ω or	RCX4JATZ0222
D 000		CARBON RES. 1/6W J 2.2K Ω	RCX6JATZ0222
R 326		CARBON RES. 1/4W J 15K Ω or	RCX4JATZ0153
D 207		CARBON RES. 1/6W J 15K Ω	RCX6JATZ0153
R 327	-	CARBON RES. 1/4W J 680 Ω	RCX4JATZ0681
R 328		CARBON RES. 1/4W J 680 Ω	RCX4JATZ0681
R 329		CARBON RES. 1/4W J 220 Ω or	RCX4JATZ0221
D 224		CARBON RES. 1/6W J 220 Ω	RCX6JATZ0221
R 331		CARBON RES. 1/4W J 470 Ω or	RCX4JATZ0471 RCX6JATZ0471
D 222		CARBON RES. 1/6W J 470 Ω CARBON RES. 1/4W J 2.2K Ω or	RCX4JATZ0222
R 332		CARBON RES. 1/6W J 2.2K Ω	RCX6JATZ0222
L	<u> </u>	OARDON REG. HOW J Z.ZN SZ	HONOMIZUZZZ

Ref. No.	Mark	Description	Part No.	Ref. No.	Mark	Description	Part No.
R 334	Walk	CARBON RES. 1/4W J 4.7K Ω	RCX4JATZ0472	Hel. No.	MICHIN	CARBON RES. 1/6W J 4.7 Ω	RCX6JATZ04R7
			RCX4JATZ0391	R 406		CARBON RES. 1/4W J 150K Ω or	RCX4JATZ0154
R 335		CARBON RES. 1/4W J 390 Ω or	RCX6JATZ0391	n 400		CARBON RES. 1/6W J 150K Ω	RCX6JATZ0154
		CARBON RES. 1/6W J 390 Ω	1 .	D 407	1		RCX4JATZ0121
R 336		CARBON RES. 1/4W J 470 Ω or	RCX4JATZ0471	R 407		CARBON RES. 1/4W J 120 Ω or	
		CARBON RES. 1/6W J 470 Ω	RCX6JATZ0471	1		CARBON RES. 1/6W J 120 Ω	RCX6JATZ0121
R 337		CARBON RES. 1/4W J 1.5K Ω	RCX4JATZ0152	R 408		CARBON RES. 1/4W J 330K Ω or	RCX4JATZ0334
R 338		CARBON RES. 1/4W J 2.7K Ω or	RCX4JATZ0272	İ		CARBON RES. 1/6W J 330K Ω	RCX6JATZ0334
		CARBON RES. 1/6W J 2.7K Ω	RCX6JATZ0272	R 409		CARBON RES. 1/4W J 12K Ω or	RCX4JATZ0123
R 339		CARBON RES. 1/4W J 2.7K Ω or	RCX4JATZ0272			CARBON RES. 1/6W J 12K Ω	RCX6JATZ0123
1		CARBON RES. 1/6W J 2.7K Ω	RCX6JATZ0272	R 410		CARBON RES. 1/4W J 5.6K Ω or	RCX4JATZ0562
R 340	Į	CARBON RES. 1/4W J 2.7K Ω or	RCX4JATZ0272			CARBON RES. 1/6W J 5.6K Ω	RCX6JATZ0562
		CARBON RES. 1/6W J 2.7K Ω	RCX6JATZ0272	R 411		CARBON RES. 1/4W J 3.9K Ω	RCX4JATZ0392
R 341		CARBON RES. 1/4W J 560 Ω or	RCX4JATZ0561	R 412		CARBON RES. 1/4W J 6.8K Ω or	RCX4JATZ0682
		CARBON RES. 1/6W J 560 Ω	RCX6JATZ0561			CARBON RES. 1/6W J 6.8K Ω	RCX6JATZ0682
R 342		CARBON RES. 1/4W J 390 Ω or	RCX4JATZ0391	R 413		CARBON RES. 1/4W J 15K Ω or	RCX4JATZ0153
		CARBON RES. 1/6W J 390 Ω	RCX6JATZ0391	1		CARBON RES. 1/6W J 15K Ω	RCX6JATZ0153
R 344		CARBON RES. 1/4W J 2.7K Ω or	RCX4JATZ0272	R 414		CARBON RES. 1/4W J 1.8M Ω or	RCX4JATZ0185
11044		CARBON RES. 1/6W J 2.7K Ω	RCX6JATZ0272	1		CARBON RES. 1/6W J 1.8M Ω	RCX6JATZ0185
R 348	C,D	CARBON RES. 1/4W J 1M Ω or	RCX4JATZ0105	R 415		CARBON RES. 1/4W J 1.8K Ω or	RCX4JATZ0182
n 340	U,D	CARBON RES. 1/6W J 1M Ω	RCX6JATZ0105	1114,3		CARBON RES. 1/6W J 1.8K Ω	RCX6JATZ0182
Date		CARBON RES. 1/4W J 1M Ω or	RCX4JATZ0105	R 416		CARBON RES. 1/4W J 150 Ω	RCX4JATZ0151
R 349				R 417		CARBON RES. 1/4W J 18 Ω	RCX4JATZ0102
D 050		CARBON RES. 1/6W J 1M Ω	RCX6JATZ0105	1 .		CARBON RES. 1/4W J 2.2K Ω or	RCX4JATZ0222
R 350		CARBON RES. 1/4W J 1K Ω	RCX4JATZ0102	R 418			1
R 351		CARBON RES. 1/4W J 8.2K Ω or	RCX4JATZ0822	D 440		CARBON RES. 1/6W J 2.2K Ω	RCX6JATZ0222
		CARBON RES. 1/6W J 8.2K Ω	RCX6JATZ0822	R 419		CARBON RES. 1/4W J 22K Ω or	RCX4JATZ0223
R 353		CARBON RES. 1/4W J 100 Ω or	RCX4JATZ0101			CARBON RES. 1/6W J 22K Ω	RCX6JATZ0223
1		CARBON RES. 1/6W J 100 Ω	RCX6JATZ0101	R 420		CARBON RES. 1/4W J 2.2K Ω or	RCX4JATZ0222
R 354		CARBON RES. 1/4W J 10K Ω	RCX4JATZ0103			CARBON RES. 1/6W J 2.2K Ω	RCX6JATZ0222
R 355		CARBON RES. 1/4W J 22K Ω or	RCX4JATZ0223	R 421		CARBON RES. 1/4W J 4.7K Ω	RCX4JATZ0472
		CARBON RES. 1/6W J 22K Ω	RCX6JATZ0223	R 456	1	PCB JUMPER D0.6-P5.0	JW5.0T
R 356		CARBON RES. 1/4W J 3.9K Ω	RCX4JATZ0392	R 502		CARBON RES. 1/4W J 680K Ω or	RCX4JATZ0684
R 357		CARBON RES. 1/4W J 2.2K Ω or	RCX4JATZ0222	I		CARBON RES. 1/6W J 680K Ω	RCX6JATZ0684
		CARBON RES. 1/6W J 2.2K Ω	RCX6JATZ0222	R 503		CARBON RES. 1/4W J 680K Ω or	RCX4JATZ0684
R 358		PCB JUMPER D0.6-P5.0	JW5.0T	ł	1	CARBON RES. 1/6W J 680K Ω	RCX6JATZ0684
R 359		CARBON RES. 1/4W J 10K Ω	RCX4JATZ0103	R 504		CARBON RES. 1/4W J 39 Ω	RCX4JATZ0390
R 360		CARBON RES. 1/4W J 5.6K Ω or	RCX4JATZ0562	R 505		CARBON RES. 1/4W J 39 Ω	RCX4JATZ0390
	1	CARBON RES. 1/6W J 5.6K Ω	RCX6JATZ0562	R 506	İ	CARBON RES. 1/4W J 47K Ω or	RCX4JATZ0473
R 361	ł	CARBON RES. 1/4W J 1.8K Ω or	RCX4JATZ0182			CARBON RES. 1/6W J 47K Ω	RCX6JATZ0473
		CARBON RES. 1/6W J 1.8K Ω	RCX6JATZ0182	R 507		CARBON RES. 1/4W J 150 Ω	RCX4JATZ0151
R 362	A,B	CARBON RES. 1/4W J 10K Ω	RCX4JATZ0103	R 508	1	CARBON RES. 1/4W J 22K Ω or	RCX4JATZ0223
R 363	","	CARBON RES. 1/4W J 1K Ω	RCX4JATZ0102			CARBON RES. 1/6W J 22K Ω	RCX6JATZ0223
R 364		CARBON RES. 1/4W J 22K Ω or	RCX4JATZ0223	R 509		CARBON RES. 1/4W J 22K Ω or	RCX4JATZ0223
111007		CARBON RES. 1/6W J 22K Ω	RCX6JATZ0223	1		CARBON RES. 1/6W J 22K Ω	RCX6JATZ0223
R 371		CARBON RES. 1/4W J 820 Ω or	RCX4JATZ0821	R 510		CARBON RES. 1/4W J 22K Ω or	RCX4JATZ0223
113/1		CARBON RES. 1/6W J 820 Ω	RCX6JATZ0821	11.010	-	CARBON RES. 1/6W J 22K Ω	RCX6JATZ0223
R 372		CARBON RES. 1/4W J 1.8K Ω or	RCX4JATZ0182	R 511		CARBON RES. 1/4W J 22K Ω or	RCX4JATZ0223
n 3/2		CARBON RES. 1/4W J 1.8K Ω	RCX6JATZ0182	11.011		CARBON RES. 1/6W J 22K Ω	RCX6JATZ0223
0.070			1	D 540		CARBON RES. 1/4W J 4.7M Ω or	RCX4JATZ0475
R 373	A,B	CARBON RES. 1/4W J 1K Ω	RCX4JATZ0102	R 512		CARBON RES. 1/6W J 4.7M Ω	RCX6JATZ0475
R 373	C,D	PCB JUMPER D0.6-P5.0	JW5.0T	D 540		i	RCX4JATZ0473
R 374	A,B	CARBON RES. 1/4W J 1K Ω	RCX4JATZ0102	R 513		CARBON RES. 1/4W J 4.7K Ω	· ·
R 375		CARBON RES. 1/4W J 680K Ω or	RCX4JATZ0684	R 514		CARBON RES. 1/4W J 47K Ω or	RCX4JATZ0473
		CARBON RES. 1/6W J 680K Ω	RCX6JATZ0684			CARBON RES. 1/6W J 47K Ω	RCX6JATZ0473
R 376		CARBON RES. 1/4W J 1K Ω	RCX4JATZ0102	R 515		CARBON RES. 1/4W J 330K Ω or	RCX4JATZ0334
R 377		CARBON RES. 1/4W J 270 Ω or	RCX4JATZ0271			CARBON RES. 1/6W J 330K Ω	RCX6JATZ0334
		CARBON RES. 1/6W J 270 Ω	RCX6JATZ0271	R 516		CARBON RES. 1/4W J 10K Ω	RCX4JATZ0103
R 378		PCB JUMPER D0.6-P5.0	JW5.0T	R 517		CARBON RES. 1/4W J 10K Ω	RCX4JATZ0103
R 379		CARBON RES. 1/4W J 680 Ω	RCX4JATZ0681	R 518	:	CARBON RES. 1/4W J 10K Ω	RCX4JATZ0103
R 380		CARBON RES. 1/4W J 270 Ω or	RCX4JATZ0271	R 519		CARBON RES. 1/4W J 10K Ω	RCX4JATZ0103
1		CARBON RES. 1/6W J 270 Ω	RCX6JATZ0271	R 520		CARBON RES. 1/4W J 10K Ω	RCX4JATZ0103
R 401		CARBON RES. 1/4W J 15 Ω	RCX4JATZ0150	R 521		CARBON RES. 1/4W J 120K Ω or	RCX4JATZ0124
R 402		CARBON RES. 1/4W J 180 Ω or	RCX4JATZ0181			CARBON RES. 1/6W J 120K Ω	RCX6JATZ0124
1		CARBON RES. 1/6W J 180 Ω	RCX6JATZ0181	R 522	1	CARBON RES. 1/4W J 56K Ω or	RCX4JATZ0563
R 403		CARBON RES. 1/4W J 47 Ω or	RCX4JATZ0470	-=-		CARBON RES. 1/6W J 56K Ω	RCX6JATZ0563
11. 700		CARBON RES. 1/6W J 47 Ω	RCX6JATZ0470	R 523	C.D	CARBON RES. 1/4W J 27K Ω or	RCX4JATZ0273
R 404		CARBON RES. 1/4W J 4.7K Ω	RCX4JATZ0472		-,5	CARBON RES. 1/6W J 27K Ω	RCX6JATZ0273
I .		CARBON RES. 1/4W J 4.7 K 12 CARBON RES. 1/4W J 4.7 Ω or	RCX4JATZ04R7	R 524		CARBON RES. 1/4W J 10K Ω	RCX4JATZ0103
R 405		UARDUNING. 1/499 J 4./ 32 UF	INONTONIZUANI	11 324		TOTAL DOTATION TOTAL	

Ref. No.	Mark	Description	Part No.	Ref. No.	Mark	Description	Part No.
R 525		CARBON RES. 1/4W J 330K Ω or	RCX4JATZ0334	R 588		CARBON RES. 1/4W J 1 Ω	RCX4JATZ0010
		CARBON RES. 1/6W J 330K Ω	RCX6JATZ0334	R 589		CARBON RES. 1/4W J 22K Ω or	RCX4JATZ0223
R 526		CARBON RES. 1/4W J 470 Ω or	RCX4JATZ0471		l	CARBON RES. 1/6W J 22K Ω	RCX6JATZ0223
		CARBON RES. 1/6W J 470 Ω	RCX6JATZ0471	R 590	1	CARBON RES. 1/4W J 10K Ω	RCX4JATZ0103
R 527		CARBON RES. 1/4W J 4.7K Ω	RCX4JATZ0472	R 591	ļ	CARBON RES. 1/4W J 22K Ω or	RCX4JATZ0223
R 528		CARBON RES. 1/4W J 39K Ω or	RCX4JATZ0393	.		CARBON RES. 1/6W J 22K Ω	RCX6JATZ0223
İ		CARBON RES. 1/6W J 39K Ω	RCX6JATZ0393	R 592		PCB JUMPER D0.6-P5.0	JW5.0T
R 529		CARBON RES. 1/4W J 39K Ω or	RCX4JATZ0393	R 593	ĺ	CARBON RES. 1/4W J 100K Ω or	RCX4JATZ0104
		CARBON RES. 1/6W J 39K Ω	RCX6JATZ0393			CARBON RES. 1/6W J 100K Ω	RCX6JATZ0104
R 530	ļ	CARBON RES. 1/4W J 4.7K Ω	RCX4JATZ0472	R 594	İ	CARBON RES. 1/4W J 1K Ω	RCX4JATZ0102
R 531		CAÑBON RES, 1/4W J 5.6K Ω or	RCX4JATZ0562	R 595	l	CARBON RES. 1/4W J 47 Ω or	RCX4JATZ0470
		CARBON RES. 1/6W J 5.6K Ω	RCX6JATZ0562			CARBON RES. 1/6W J 47 Ω	RCX6JATZ0470
R 532		CARBON RES, 1/4W J 4.7K Ω	RCX4JATZ0472	R 596		CARBON RES. 1/4W J 2.2K Ω or	RCX4JATZ0222
R 533	1	CARBON RES. 1/4W J 2.2K Ω or	RCX4JATZ0222			CARBON RES. 1/6W J 2.2K Ω	RCX6JATZ0222
İ .	1	CARBON RES. 1/6W J 2.2K Ω	RCX6JATZ0222	R 597	1	CARBON RES. 1/4W J 1.2K Ω or	RCX4JATZ0122
R 534		CARBON RES. 1/4W J 2.2K Ω or	RCX4JATZ0222	-	1	CARBON RES. 1/6W J 1.2K Ω	RCX6JATZ0122
Ì	l	CARBON RES. 1/6W J 2.2K Ω	RCX6JATZ0222	R 598		CARBON RES. 1/4W J 10K Ω	RCX4JATZ0103
R 535	1	CARBON RES. 1/4W J 10K Ω	RCX4JATZ0103	R 599		CARBON RES. 1/4W J 220 Ω or	RCX4JATZ0221
R 536		CARBON RES. 1/4W J 330K Ω or	RCX4JATZ0334			CARBON RES. 1/6W J 220 Ω	RCX6JATZ0221
]	CARBON RES. 1/6W J 330K Ω	RCX6JATZ0334	R 600		CARBON RES. 1/4W J 10K Ω	RCX4JATZ0103
R 537	C,D	CARBON RES. 1/4W J 47K Ω or	RCX4JATZ0473	R 601		CARBON RES. 1/4W J 12K Ω or	RCX4JATZ0123
!		CARBON RES. 1/6W J 47K Ω	RCX6JATZ0473			CARBON RES. 1/6W J 12K Ω	RCX6JATZ0123
R 538	C,D	CARBON RES. 1/4W J 220K Ω or	RCX4JATZ0224	R 607		CARBON RES. 1/4W J 10K Ω	RCX4JATZ0103
		CARBON RES. 1/6W J 220K Ω	RCX6JATZ0224	R 608		PCB JUMPER D0.6-P5.0	JW5.0T
R 539	C,D	CARBON RES. 1/4W J 3.3K Ω or	RCX4JATZ0332	R 703		CARBON RES. 1/4W J 1K Ω	RCX4JATZ0102 RCX4JATZ0473
	1	CARBON RES. 1/6W J 3.3K Ω	RCX6JATZ0332	R 704		CARBON RES. 1/4W J 47K Ω or	RCX6JATZ0473
R 540	A,B	CARBON RES. 1/4W J 3.3K Ω or	RCX4JATZ0332	D 705	,	CARBON RES. 1/6W J 47K Ω	· ·
		CARBON RES. 1/6W J 3.3K Ω	RCX6JATZ0332	R 705		CARBON RES. 1/4W J 33K Ω or CARBON RES. 1/6W J 33K Ω	RCX4JATZ0333 RCX6JATZ0333
R 540	C,D	CARBON RES. 1/4W J 10K Ω	RCX4JATZ0103	R 706		CARBON RES. 1/4W J 2.4K Ω	RCX4JATZ0242
R 541		CARBON RES. 1/4W J 820 Ω or	RCX4JATZ0821	R 707	}	CARBON RES. 1/4W J 10K Ω	RCX4JATZ0103
D 540		CARBON RES. 1/6W J 820 Ω CARBON RES. 1/4W J 560K Ω or	RCX6JATZ0821 RCX4JATZ0564	R 708		CARBON RES. 1/4W J 10K Ω	RCX4JATZ0103
R 542		CARBON RES. 1/6W J 560K Ω	RCX6JATZ0564	R 709		CARBON RES. 1/4W J 100K Ω or	RCX4JATZ0104
R 543		CARBON RES. 1/4W J 330K Ω or	RCX4JATZ0334	111703	\	CARBON RES. 1/6W J 100K Ω	RCX6JATZ0104
n 040		CARBON RES. 1/6W J 330K Ω	RCX6JATZ0334	R 710		CARBON RES. 1/4W J 100K Ω or	RCX4JATZ0104
R 544		CARBON RES. 1/4W J 4.7K Ω	RCX4JATZ0472	1,1,10		CARBON RES. 1/6W J 100K Ω	RCX6JATZ0104
R 550		CARBON RES. 1/4W J 1 Ω	RCX4JATZ0010	R 711		CARBON RES. 1/4W J 12K Ω or	RCX4JATZ0123
R 551		PCB JUMPER D0.6-P5.0	JW5.0T			CARBON RES. 1/6W J 12K Ω	RCX6JATZ0123
R 552	1	CARBON RES. 1/4W J 1.8K Ω or	RCX4JATZ0182	R 712		CARBON RES. 1/4W J 75 Ω or	RCX4JATZ0750
1.1.00		CARBON RES, 1/6W J 1.8K Ω	RCX6JATZ0182		į	CARBON RES. 1/6W J 75 Ω	RCX6JATZ0750
R 553		CARBON RES. 1/4W J 1K Ω	RCX4JATZ0102	R 713		CARBON RES. 1/4W J 1K Ω	RCX4JATZ0102
R 554	1	CARBON RES, 1/4W J 1.2K Ω or	RCX4JATZ0122	R 751	1	CARBON RES. 1/4W J 22K Ω or	RCX4JATZ0223
		CARBON RES. 1/6W J 1.2K Ω	RCX6JATZ0122			CARBON RES. 1/6W J 22K Ω	RCX6JATZ0223
R 555		CARBON RES. 1/4W J 1.5K Ω	RCX4JATZ0152	R 752		CARBON RES. 1/4W J 150 Ω	RCX4JATZ0151
R 559		CARBON RES. 1/4W J 22K Ω or	RCX4JATZ0223	R 753		CARBON RES. 1/4W J 68 Ω or	RCX4JATZ0680
		CARBON RES. 1/6W J 22K Ω	RCX6JATZ0223			CARBON RES. 1/6W J 68 Ω	RCX6JATZ0680
R 561	C,D	CARBON RES. 1/4W J 10K Ω	RCX4JATZ0103	R 754		CARBON RES. 1/4W J 150 Ω	RCX4JATZ0151
R 563		CARBON RES. 1/4W J 10K Ω	RCX4JATZ0103	R 755		CARBON RES. 1/4W J 68 Ω or	RCX4JATZ0680
R 564	A,B	CARBON RES. 1/4W J 10K Ω	RCX4JATZ0103	1		CARBON RES. 1/6W J 68 Ω	RCX6JATZ0680
R 565		CARBON RES, 1/4W J 10K Ω	RCX4JATZ0103	R 756		CARBON RES. 1/4W J 5.6K Ω or	RCX4JATZ0562
R 567		CARBON RES. 1/4W J 10K Ω	RCX4JATZ0103			CARBON RES. 1/6W J 5.6K Ω	RCX6JATZ0562
R 568		CARBON RES. 1/4W J 10K Ω	RCX4JATZ0103	R 758	-	CARBON RES. 1/4W J 27K Ω or	RCX4JATZ0273
R 571		CARBON RES. 1/4W J 10K Ω	RCX4JATZ0103			CARBON RES. 1/6W J 27K Ω	RCX6JATZ0273
R 575		CARBON RES. 1/4W J 10K Ω	RCX4JATZ0103	R 759		CARBON RES. 1/4W J 27K Ω or	RCX4JATZ0273
R 576	A,B	CARBON RES. 1/4W J 10K Ω	RCX4JATZ0103			CARBON RES. 1/6W J 27K Ω	RCX6JATZ0273
R 576	C,D	CARBON RES. 1/4W J 2.2K Ω or	RCX4JATZ0222	R 760	1	CARBON RES. 1/4W J 820 Ω or	RCX4JATZ0821
		CARBON RES. 1/6W J 2.2K Ω	RCX6JATZ0222			CARBON RES. 1/6W J 820 Ω	RCX6JATZ0821
R 579		CARBON RES. 1/4W J 10K Ω	RCX4JATZ0103	R 761		CARBON RES. 1/4W J 820 Ω or	RCX4JATZ0821
R 580		CARBON RES. 1/4W J 18K Ω or	RCX4JATZ0183			CARBON RES. 1/6W J 820 Ω	RCX6JATZ0821
		CARBON RES. 1/6W J 18K Ω	RCX6JATZ0183	R 762		CARBON RES. 1/4W J 1K Ω	RCX4JATZ0102
R 581		CARBON RES. 1/4W J 10K Ω	RCX4JATZ0103	R 763		CARBON RES. 1/4W J 100K Ω or	RCX4JATZ0104
R 582	ŀ	CARBON RES. 1/4W J 10K Ω	RCX4JATZ0103			CARBON RES. 1/6W J 100K Ω	RCX6JATZ0104
R 583		CARBON RES. 1/4W J 10K Ω	RCX4JATZ0103	R 764		CARBON RES. 1/4W J 560 Ω or	RCX4JATZ0561
R 585		CARBON RES. 1/4W J 1.5K Ω	RCX4JATZ0152			CARBON RES. 1/6W J 560 Ω	RCX6JATZ0561
R 586		CARBON RES. 1/4W J 1 Ω	RCX4JATZ0010	R 765		CARBON RES. 1/4W J 36K Ω or	RCX4JATZ0363
R 587		CARBON RES. 1/4W J 1 Ω	RCX4JATZ0010			CARBON RES. 1/6W J 36K Ω	RCX6JATZ0363

Ref. No.	Mark	Description	Part No.
R 766	Waik	PCB JUMPER D0.6-P5.0	JW5.0T
J 35		CARBON RES. 1/4W J 2.2K Ω or	RCX4JZPZ0222
		CARBON RES. 1/6W J 2.2K Ω	RCX6JZPZ0222
		SWITCHES	
SW 501		TACT SWITCH SKHHAP or	SST0101AL028
		TACT SWITCH KSM0614B or	SST0101HH013
		TACT SWITCH KPT-1105BM or	SST0101JP001
		TACT SWITCH DHT-1102C or	SST0101LJ001
		TACT SWITCH EVQ PAC 09K or	SST0101MS017
		TACT SWITCH EVQ JAC 09K	SST0101MS021
SW 502		TACT SWITCH SKHHAP or	SST0101AL028
		TACT SWITCH KSM0614B or	SST0101HH013
		TACT SWITCH KPT-1105BM or	SST0101JP001
		TACT SWITCH DHT-1102C or	SST0101LJ001
		TACT SWITCH EVQ PAC 09K or	SST0101MS017
		TACT SWITCH EVQ JAC 09K	SST0101MS021
SW 504 .		TACT SWITCH SKHHAP or	SST0101AL028
		TACT SWITCH KSM0614B or	SST0101HH013
	4	TACT SWITCH KPT-1105BM or	SST0101JP001
		TACT SWITCH EVO PAC OOK or	SST0101LJ001 SST0101MS017
	.	TACT SWITCH EVQ PAC 09K or TACT SWITCH EVQ JAC 09K	SST0101MS017 SST0101MS021
SW 505		TACT SWITCH EVO JAC 09K	SST0101MS021 SST0101AL028
SW 505		TACT SWITCH SKITIAF OF	SST0101AL028 SST0101HH013
		TACT SWITCH KPT-1105BM or	SST0101HH013
		TACT SWITCH RET-1103BM 0F	SST01015F001 SST0101LJ001
		TACT SWITCH EVQ PAC 09K or	SST0101MS017
		TACT SWITCH EVQ JAC 09K	SST0101MS021
SW 506		TACT SWITCH KSM0611B	SST0101HH004
SW 507		PUSH SWITCH SPPB61 or	SSP0102AL001
* '		PUSH SWITCH JPS1120-0601H	SSP0102SR001
		VARIABLE RESISTORS	
VR 301		CARBON P.O.T. 4.7K Ω B or	638A472
		CARBON P.O.T. 5K Ω B or	VRCB502KA011
		CARBON P.O.T. 5K Ω B or	138N780
		CARBON P.O.T. 5K \(\Omega \) B	VRCB502HH005
VR 302		CARBON P.O.T. 2.2K Ω B or	638A222
		CARBON P.O.T. 2K Ω B or CARBON P.O.T. 2K Ω B or	VRCB202KA011 138N778
		CARBON P.O.T. 2K Ω B	VRCB202HH005
VR 501		CARBON P.O.T. 100K Ω B or	638A104
VI 301		CARBON P.O.T. 100K Ω.B.or	VRCB104KA011
ŀ		CARBON P.O.T. 100K Ω B or	138N785
	1	CARBON P.O.T. 100K Ω B	VRCB104HH005
		CRYSTAL OSCILLATORS	
X 301		CRYSTAL OSCILLATOR 4.433619MHZ or	1811388
		CRYSTAL OSCILLATOR 4.433619MHZ or	l .
		CRYSTAL OSCILLATOR 4.433619MHZ	FXC445LGM001
X 501		CRYSTAL OSCILLATOR 32KHZ(10PPM)	1811350
1		or	
	0.5	CRYSTAL OSCILLATOR 32KHZ(10PPM)	1811351
X 502	C,D	CRYSTAL OSCILLATOR 13.300857MHZ MISCELLANOEUS	FXE136LDS001
2B 5	1		0VM302619
2B 5 2B 6		HOLDER, F.I.P.(R) HOLDER, F.I.P.(L)	0VM302619 0VM302618
2B 6 2B 8		BUSH, LED(B)	6N50114
2B 8 2B 11		HOLDER, IF SENSOR (2B11 Used only if	0VM407020
ا تا تا		RS501: NJL51V367)	0 4 1417-07 020
2B 15	1	PLATE, GROUND, TUNER	0VM407332
2L 071		SCREW, S-TIGHT M3X5 BIND HEAD+	GBMS3050
A 17		JACK BOARD(BG)	0VM302625
A 19		JACK BOARD(21P)	0VM201920
AC 001 🛕		AC CORD LA-1517-1	WAE0202LW011
F 001 🔨		FUSE T1.60AH250V or	PAGC20BAG162
		FUSE T1.60AH250V	PBGZ20CDX006
FH 001		FUSE HOLDER FH-V-03078-1 or	XH01Z00DK002
		HOLDER, FUSE CNT41-0014	1790424

Ref. No.	Mark	Description	Part No.
FH 002	, mark	FUSE HOLDER FH-V-03078-1 or	XH01Z00DK002
		HOLDER, FUSE CNT41-0014	1790424
FL 301	C.D	NOISE FILTER ZJSR5101-222TA	FAE806TTE001
FP 501	'	F.I.P. 10-BT-119G or	TVFD1C0FT024
		F.I.P. FIP10BTM6	TVFD1C0NE025
JK 751		SKIRT JACK, 21P CSS5021-1701R	JGZL210SR001
JW 01	C,D	WIRE ASSEMBLY 10P	WX1H6302-002
JW 03	C,D	WIRE 050/BRO/AWG26#1007	WX3101A6F405
JW 04	C,D	WIRE 050/BRO/AWG26#1007	WX3101A6F405
MD 701		RF MODULATOR PAL(G) NJH3032G007	URFCPLGJR001
RS 501		REMOTE RECEIVER PIC-12042LFB (Not used 2B11)	-USESJRSKK018
RS 501		REMOTE RECEIVER NJL51V367 (Used 2B11)	USESJRSJR009
T 001 🛆		PULSE TRANS S1468B	LTT00EPSA009
TU 701	1	TUNER UNIT TELE4-025A	UTUNPLBAL005
	1	RF CABLE	WPZ0050LG001
		LEAD CLAMPER or	1790356
		LEAD CLAMPER GT-80M	XF00080HL001

Function CBA (MCV-B)

Ref. No.	Mark	Description	Part No.
		Function CBA (MCV-B)	
, .		Consists of the following:	
		CONNECTOR	
CN 251		ANGLE SOCKET CONNECTOR, 3P	1770598
		RESISTORS	
R 253		CARBON RES. 1/4W J 1.2K Ω or	RCX4JATZ0122
		CARBON RES. 1/6W J 1.2K Ω	RCX6JATZ0122
R 254		CARBON RES. 1/4W J 1.5K Ω or	RCX4JATZ0152
		CARBON RES. 1/6W J 1.5K Ω	RCX6JATZ0152
R 255		CARBON RES. 1/4W J 2.2K Ω or	RCX4JATZ0222
1.		CARBON RES. 1/6W J 2.2K Ω	RCX6JATZ0222
R 256		CARBON RES. 1/4W J 3.9K Ω or	RCX4JATZ0392
-		CARBON RES. 1/6W J 3.9K Ω	RCX6JATZ0392
R 257		CARBON RES. 1/4W J 2.2K Ω or	RCX4JATZ0222
		CARBON RES. 1/6W J 2.2K Ω	RCX6JATZ0222
R 258		CARBON RES. 1/4W J 3.9K Ω or	RCX4JATZ0392
		CARBON RES. 1/6W J 3.9K Ω	RCX6JATZ0392
R 259		CARBON RES. 1/4W J 8.2K Ω or	RCX4JATZ0822
		CARBON RES. 1/6W J 8.2K Ω	RCX6JATZ0822
R 260		CARBON RES. 1/4W J 22K Ω or	RCX4JATZ0223
		CARBON RES. 1/6W J 22K Ω	RCX6JATZ0223
R 271		CARBON RES. 1/4W J 1.8K Ω or	RCX4JATZ0182
		CARBON RES. 1/6W J 1.8K Ω	RCX6JATZ0182
R 292		CARBON RES. 1/4W J 1K Ω or	RCX4JATZ0102
	<u> </u>	CARBON RES. 1/6W J 1K Ω	RCX6JATZ0102
		SWITCHES	
SW 252	-	TACT SWITCH SKHHAP or	SST0101AL028
		TACT SWITCH KSM0614B or	SST0101HH013
•		TACT SWITCH KPT-1105BM or	SST0101JP001
		TACT SWITCH DHT-1102C or	SST0101LJ001
		TACT SWITCH EVQ PAC 09K or	SST0101MS017
		TACT SWITCH EVQ JAC 09K	SST0101MS021
SW 253		TACT SWITCH SKHHAP or	SST0101AL028
		TACT SWITCH KSM0614B or	SST0101HH013
•	1	TACT SWITCH KPT-1105BM or	SST0101JP001
		TACT SWITCH DHT-1102C or	SST0101LJ001
		TACT SWITCH EVQ PAC 09K or	SST0101MS017
		TACT SWITCH EVQ JAC 09K	SST0101MS021
SW 254		TACT SWITCH SKHHAP or	SST0101AL028
		TACT SWITCH KSM0614B or	SST0101HH013
	1	TACT SWITCH KPT-1105BM or	SST0101JP001
•		TACT SWITCH DHT-1102C or	SST0101LJ001
		TACT SWITCH EVQ PAC 09K or	SST0101MS017
		TACT SWITCH EVQ JAC 09K	SST0101MS021

Ref. No.	Mark	Description	Part No.
SW 255	1	TACT SWITCH SKHHAP or	SST0101AL028
1		TACT SWITCH KSM0614B or	SST0101HH013
		TACT SWITCH KPT-1105BM or	SST0101JP001
		TACT SWITCH DHT-1102C or	SST0101LJ001
		TACT SWITCH EVQ PAC 09K or	SST0101MS017
		TACT SWITCH EVQ JAC 09K	SST0101MS021
SW 256		TACT SWITCH SKHHAP or	SST0101AL028
		TACT SWITCH KSM0614B or	SST0101HH013
1	l	TACT SWITCH KPT-1105BM or	SST0101JP001
		TACT SWITCH DHT-1102C or	SST0101LJ001
1		TACT SWITCH EVQ PAC 09K or	SST0101MS017
1		TACT SWITCH EVQ JAC 09K	SST0101MS021
SW 257		TACT SWITCH SKHHAP or	SST0101AL028
		TACT SWITCH KSM0614B or	SST0101HH013
		TACT SWITCH KPT-1105BM or	SST0101JP001
		TACT SWITCH DHT-1102C or	SST0101LJ001
ļ		TACT SWITCH EVQ PAC 09K or	SST0101MS017
		TACT SWITCH EVQ JAC 09K	SST0101MS021
SW 258		TACT SWITCH SKHHAP or	SST0101AL028
		TACT SWITCH KSM0614B or	SST0101HH013
		TACT SWITCH KPT-1105BM or	SST0101JP001
		TACT SWITCH DHT-1102C or	SST0101LJ001
		TACT SWITCH EVQ PAC 09K or	SST0101MS017
		TACT SWITCH EVQ JAC 09K	SST0101MS021
SW 259		TACT SWITCH SKHHAP or	SST0101AL028
		TACT SWITCH KSM0614B or	SST0101HH013
		TACT SWITCH KPT-1105BM or	SST0101JP001
	İ	TACT SWITCH DHT-1102C or	SST0101LJ001
-	.	TACT SWITCH EVQ PAC 09K or	SST0101MS017
		TACT SWITCH EVQ JAC 09K	SST0101MS021
SW 260		TACT SWITCH SKHHAP or	SST0101AL028
		TACT SWITCH KSM0614B or	SST0101HH013
		TACT SWITCH KPT-1105BM or	SST0101JP001
		TACT SWITCH DHT-1102C or	SST0101LJ001
		TACT SWITCH EVQ PAC 09K or	SST0101MS017
014/074		TACT SWITCH EVQ JAC 09K	SST0101MS021
SW 271	1	TACT SWITCH SKHHAP or	SST0101AL028
		TACT SWITCH KSM0614B or	SST0101HH013
		TACT SWITCH KPT-1105BM or	SST0101JP001
	- 1	TACT SWITCH DHT-1102C or	SST0101LJ001
		TACT SWITCH EVQ PAC 09K or	SST0101MS017
L		TACT SWITCH EVQ JAC 09K	SST0101MS021

IF CBA (IFV)

Ref. No.	Mark	Description	Don't Ma
11011110.			Part No.
	A,B	IF CBA (IFV)	0VSA07729
	C,D	IF CBA (IFV)	0VSA07788
		Consists of the following:	
	,	CAPACITORS	
C 02		CHIP CERAMIC CAP. CK C 1pF/50V	CHE1JC8CK1R0
C 03		CHIP CERAMIC CAP. CK C 1pF/50V	CHE1JC8CK1R0
C 07		CHIP CERAMIC CAP. B K 2200pF/50V or	CHE1JK80B222
		CHIP CERAMIC CAP. B K 0.0022µF/50V	12B3222C
C 09		CHIP CERAMIC CAP. CK C 1pF/50V	CHE1JC8CK1R0
C 10		CHIP CERAMIC CAP. CJ C 3pF/50V	CHE1JC8CJ3R0
C 11		CHIP CERAMIC CAP. B K 0.022µF/50V or	CHE1JK80B223
		CHIP CERAMIC CAP. B K 0.022µF/50V	12B3223C
C 12		CHIP CERAMIC CAP. CH J 100pF/50V or	CHE1JJ8CH101
		CHIP CERAMIC CAP. CH J 100pF/50V	12CH101C
C 13		CHIP CERAMIC CAP. F Z 0.01μF/50V or	CHE1JZ80F103

Ref	. No.	Mark	Description	Part No.
			CHIP CERAMIC CAP. F Z 0.01µF/50	
C 14			CHIP CERAMIC CAP. SL J 330pF/50V or	CHE1JJ8SL331
		Ì	CHIP CERAMIC CAP. SL J 330pF/50	10702210
C 15			CHIP CERAMIC CAP. B K 2200pF/50V or	CHE1JK80B222
			CHIP CERAMIC CAP. B K	12B3222C
C 16			CHIP CERAMIC CAP. B K	CHE1JK80B222
			CHIP CERAMIC CAP. B K	12B3222C
C 17			CHIP CERAMIC CAP. CH J 18pF/50\	CHE1JJ8CH180
C 18			CHIP CERAMIC CAP. CH J 18pF/50\	
1018			CHIP CERAMIC CAP. F Z 0.01μF/50V or	CHE1JZ80F103
10.40			CHIP CERAMIC CAP. F Z 0.01µF/50	V 12F3103C
C 19	+ 5		CHIP CERAMIC CAP. CH J 47pF/50\	
C 20			CHIP CERAMIC CAP, CH J 47pF/50V	
C 21			CHIP CERAMIC CAP. PH J 36pF/50V CHIP CERAMIC CAP. F Z	
1021			0.047µF/50V or	CHE1JZ80F473
	y. 1.		CHIP CERAMIC CAP. F Z 0.047µF/50V	12F3473C
C 22			CHIP CERAMIC CAP. B K 2200pF/50V or	CHE1JK80B222
			CHIP CERAMIC CAP. B K 0.0022µF/50V	12B3222C
C 23		in the second	CHIP CERAMIC CAP. CH J 24pF/50V or	
C 24			CHIP CERAMIC CAP. CH J 24pF/50V CHIP CERAMIC CAP. CH J 15pF/50V	
			or CHIP CERAMIC CAP. CH J 15pF/50V	
C 25		11.1.	CHIP CERAMIC CAP. CH J 15pF/50V or	CHE1JJ8CH150
C 30		31	CHIP CERAMIC CAP. CH J 15pF/50V CHIP CERAMIC CAP. CH J 47pF/50V	12CH150C CHE1JJ8CH470
			or CHIP CERAMIC CAP. CH J 47pF/50V	·
C 31			CHIP CERAMIC CAP. F Z 0.01μF/50V or	CHE1JZ80F103
			CHIP CERAMIC CAP. F Z 0.01 µF/50V	12F3103C
C 51			ELECTROLYTIC CAP. 0.47 µF/50V M H7	CE1JMAVSLR47
C 52			ELECTROLYTIC CAP. 2.2µF/50V M H7	CE1JMAVSL2R2
C 53			ELECTROLYTIC CAP. 47μF/16V M H7	CE1CMAVSL470
C 55			ELECTROLYTIC CAP. 0.47µF/50V M	CE1JMAVSLR47
CN 01	1		CONNECTOR OF	loonis
CNUT			SHUNT CONNECTOR, 8P.	JC92K08ER001
IC 01			IC LA7578N	QSBLA0SSY057
		1.2	COILS	
L 02			INDUCTOR 15µH-K-26T or	LLAXKDTKA150
			INDUCTOR 15µH-K-26T	LLAXKATTU150
L 04			INDUCTOR 10µH-K-26T or	LLAXKDTKA100
			INDUCTOR 10µH-K-26T	LLAXKATTU100
L 05			INDUCTOR 39µH-K-26T or	LLAXKDTKA390
			INDUCTOR 39µH-K-26T	LLAXKATTU390
T 02			COIL 2259-JPS-398	LFA05V0SF007
T 03	- 1		COIL 2259-JPS-400	LFA05V0SF009
T 04				LFA05V0SF003
T 05			COIL 2259-JPS-397	LFA05V0SF006
T 06			COIL 2259-JPS-397	LFA05V0SF006
			TRANSISTOR	
.Q 01			TRANSISTOR KTA1266(Y) or	NQSY0KTA1266

		D	Dod No.
Ref. No.	Mark	Description TRANSISTOR KTA1266(GR) or	Part No. NQS40KTA1266
		TRANSISTOR RTA1200(GR) of	A1317SZ
		TRANSISTOR 2SA1317(5) 01	A1317TZ
		RESISTORS	HISTITLE
R 01		CHIP RES. 1/10W 0 Ω or	RRXAZR6Z0000
11.01		CHIP RES. 1/10W J 0 Ω	134F000C
R 02		CHIP RES. 1/10W J 150 Ω or	RRXAJR6Z0151
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		CHIP RES. 1/10W J 150 Ω	134F151C
R 03		CHIP RES. 1/10W J 270 Ω or	RRXAJR6Z0271
		CHIP RES. 1/10W J 270 Ω	134F271C
R 10		CHIP RES. 1/10W J 3.3K Ω or	RRXAJR6Z0332
		CHIP RES. 1/10W J 3.3K Ω	134F332C
R 11		CHIP RES. 1/10W J 6.8K Ω or	RRXAJR6Z0682
		CHIP RES. 1/10W J 6.8K Ω	134F682C
R 12		CHIP RES. 1/10W J 2.7K Ω or	RRXAJR6Z0272
		CHIP RES. 1/10W J 2.7K Ω	134F272C
R 13		CHIP RES. 1/10W J 1.8K Ω or	RRXAJR6Z0182
_		CHIP RES. 1/10W J 1.8K Ω	134F182C
R 14		CHIP RES. 1/10W J 1.5K Ω or	RRXAJR6Z0152
D 45		CHIP RES. 1/10W J 1.5K Ω	134F152C RRXAJR6Z0122
R 15		CHIP RES. 1/10W J 1.2K Ω or CHIP RES. 1/10W J 1.2K Ω	134F122C
R 16		CHIP RES. 1/10W J 56K Ω or	RRXAJR6Z0563
' ' '		CHIP RES. 1/10W J 56K Ω	134F563C
R 17		CHIP RES. 1/10W J 6.8K Ω or	RRXAJR6Z0682
1		CHIP RES. 1/10W J 6.8K Ω	134F682C
R 18		CHIP RES. 1/10W J 2.7K Ω or	RRXAJR6Z0272
		CHIP RES. 1/10W J 2.7K Ω	134F272C
R 19		CHIP RES. 1/10W J 820K Ω or	RRXAJR6Z0824
		CHIP RES. 1/10W J 820K Ω	134F824C
R 21		CHIP RES. 1/10W J 150K Ω or	RRXAJR6Z0154
		CHIP RES. 1/10W J 150K Ω	134F154C
R 22		CHIP RES. 1/10W J 120K Ω or	RRXAJR6Z0124 134F124C
R 23		CHIP RES. 1/10W J 120K Ω CHIP RES. 1/10W J 120K Ω or	RRXAJR6Z0124
n 23		CHIP RES. 1/10W J 120K Ω	134F124C
R 24		CHIP RES. 1/10W J 82K Ω or	RRXAJR6Z0823
11.27		CHIP RES. 1/10W J 82K Ω	134F823C
R 27		CHIP RES. 1/10W J 1.5K Ω or	RRXAJR6Z0152
ľ		CHIP RES. 1/10W J 1.5K Ω	134F152C
R 28		CHIP RES. 1/10W $0~\Omega$ or	RRXAZR6Z0000
		CHIP RES. 1/10W J 0 Ω	134F000C
R 29		CHIP RES. 1/10W J 360 Ω or	RRXAJR6Z0361
		CHIP RES. 1/10W J 360 Ω	134F361C
R 30		CHIP RES. 1/10W J 150 Ω or	RRXAJR6Z0151
D 20		CHIP RES. 1/10W J 150 Ω	134F151C RRXAJR6Z0332
.R 32		CHIP RES. 1/10W J 3.3K Ω or CHIP RES. 1/10W J 3.3K Ω	134F332C
R 34		CHIP RES. 1/10W 0 Ω or	RRXAZR6Z0000
11.04		CHIP RES. 1/10W J 0 Ω	134F000C
R 35		CHIP RES. 1/10W J 2.7K Ω or	RRXAJR6Z0272
		CHIP RES. 1/10W J 2.7K Ω	134F272C
R 36		CHIP RES. 1/10W 0 Ω or	RRXAZR6Z0000
		CHIP RES. 1/10W J 0 Ω	134F000C
R 37		CHIP RES. 1/10W J 390 Ω or	RRXAJR6Z0391
ŀ		CHIP RES. 1/10W J 390 Ω	134F391C
R 38		CHIP RES. 1/10W J 68 Ω or	RRXAJR6Z0680
		CHIP RES. 1/10W J 68 Ω	134F680C
R 40		CHIP RES. 1/10W 0 Ω or	RRXAZR6Z0000
		CHIP RES. 1/10W J 0 Ω	134F000C
R 42		CHIP RES. 1/10W 0 Ω or	RRXAZR6Z0000
 D / C	1	CHIP RES. 1/10W J 0 Ω	134F000C
R 43	1	CHIP RES. 1/10W 0 Ω or CHIP RES. 1/10W J 0 Ω	134F000C
B AA		CHIP RES. 1/10W 0 Ω or	RRXAZR6Z0000
R 44		CHIP RES. 1/10W J 0 Ω	134F000C
<u></u>		OF III FILO. I/TOW J U SZ	טטטט ודטון

Ref. No.	Mark	Description	Part No.
R 45		CHIP RES. 1/10W 0 Ω or	RRXAZR6Z0000
		CHIP RES. 1/10W J 0 Ω	134F000C
R 46		CHIP RES. 1/10W 0 Ω or	RRXAZR6Z0000
	ļ	CHIP RES. 1/10W J 0 Ω	134F000C
		VARIABLE RESISTOR	
VR 01		CARBON P.O.T. 10K Ω B or	138A959
		CARBON P.O.T. 10K Ω B or	VRCB103KA012
		CARBON P.O.T. 10K Ω B	VRCB103HH002
		MISCELLANEOUS	
2B 16		SHIELD, TOP(IF)	0VM302616
2B 17	!	SHIELD, BOTTOM(IF)	0VM302617
F 01		SURFACE ACOUSTIC WAVE FILTER F1044QS	FBB386PTS003
F 03	1	CERAMIC TRAP 5.5MHZ/5.74MHZ	FBE575PMS004
F 04	-	CERAMIC FILTER 5.5MHZ	FBB555PMR004
		LABEL, IF	0VM407532

CSV CBA (13A-509 and 13A-529 Models only)

Ref. No.	Mark	Description	Part No.
	C.D	CSV CBA	0VSA07882
	- / -	Consists of the following:	
	I	CAPACITORS	
C 201		CERAMIC CAP.(AX) SL J 33pF/50V or	CCA1JJTSL330
		CERAMIC CAP. SL J 33pF/50V	3S41330T
C 202		CERAMIC CAP.(AX) X K 2200pF/16V	CDA1CKT0X222
		or	
		CERAMIC CAP. X K 0.0022µF/16V	3X4C222T
C 203		CERAMIC CAP.(AX) SL J 15pF/50V or	
		CERAMIC CAP. SLJ 15pF/50V	3S41150T
C 204		CERAMIC CAP.(AX) X K 2200pF/16V	CDA1CKT0X222
		OF DANIE CAR V K 0 0000 - F/16V	3X4C222T
0.005	ĺ	CERAMIC CAP. X K 0.0022µF/16V CERAMIC CAP.(AX) X K 2200pF/16V	CDA1CKT0X222
C 205		or	CDATORTUAZZZ
		CERAMIC CAP. X K 0.0022µF/16V	3X4C222T
C 206		CERAMIC CAP.(AX) SL J 68pF/50V or	CCA1JJTSL680
		CERAMIC CAP. SL J 68pF/50V	3S41680T
C 207		CERAMIC CAP (AX) X K 2200pF/16V	CDA1CKT0X222
		or	
		CERAMIC CAP. X K 0.0022μF/16V	3X4C222T
C 208		CERAMIC CAP.(AX) Y M 0.01 µF/16V	CDA1CMT0Y103
C 209]	CERAMIC CAP.(AX) B J 1000pF/50V	CDA1JJT0B102
		OF ANNO CAR (AV) B K 4000-F(50)	ODA4 BOTODAGO
		CERAMIC CAP (AX) B K 1000pF/50V	CDA1JKT0B102
		CERAMIC CAP. B J 0.001 µF/50V or	3B41102T
		CERAMIC CAP. B K 0.001µF/50V	3B42102T
	<u> </u>	CONNECTORS	
CN 201		ANGLE PIN HEADER, 10P	1740783
CN 202	1	PIN HEADER, ANGLE, 3P	5700289
CN 203		PIN HEADER, ANGLE, 3P	5700289
		DIODE	
D 201		SWITCHING DIODE 1N4148M or	NDTZ01N4148M
		SWITCHING DIODE 1N4148M or	QDTZ01N4148M
		SWITCHING DIODE GMB01-BT	GMB01BT
		COILS	
L 201		INDUCTOR 68µH-K	LLAXKCPFG680
L 202		INDUCTOR 15µH-K	LLAXKCPFG150
		TRANSISTORS	
Q 201		RES. BUILT-IN TRANSISTOR KRA109M or	NQSZ0KRA109M
		RES. BUILT-IN TRANSISTOR KSR2208 or	NQSZ0KSR2208
		RES. BUILT-IN TRANSISTOR 2SA1347	QQSZ02SA1347
Q 202		TRANSISTOR KTA1267(Y) or	NQSY0KTA1267

Ref. No.	Mark	Description	Part No.
		TRANSISTOR KTA1267(GR) or	NQS10KTA1267
1		TRANSISTOR KSA1175(Y) or	NQSY0KSA1175
		TRANSISTOR KSA1175(G) or	NQSG0KSA1175
		TRANSISTOR 2SA608SP(E) or	A608SEZ
		TRANSISTOR 2SA608SP(F)	A608SFZ
Q 203		TRANSISTOR KTC3199(Y) or	NQSY0KTC3199
		TRANSISTOR KTC3199(GR) or	NQS10KTC3199
		TRANSISTOR KSC2785(Y) or	NQSY0KSC2785
		TRANSISTOR KSC2785(G) or	NQSG0KSC2785
		TRANSISTOR 2SC536SP(E) or	C536SEZ
		TRANSISTOR 2SC536SP(F)	C536SFZ
Q 204		TRANSISTOR KTA1267(Y) or	NQSY0KTA1267
		TRANSISTOR KTA1267(GR) or	NQS10KTA1267
·		TRANSISTOR KSA1175(Y) or	NQSY0KSA1175
		TRANSISTOR KSA1175(G) or	NQSG0KSA1175
		TRANSISTOR 2SA608SP(E) or	A608SEZ
		TRANSISTOR 2SA608SP(F)	A608SFZ
Q 205		TRANSISTOR KTC3193(Y) or	NQSY0KTC3193
Ī		TRANSISTOR 2SC2839(E) or	C2839EZ
		TRANSISTOR 2SC2839(F)	C2839FZ
		RESISTORS	
R 201		CARBON RES. 1/4W J 1.2K Ω or	RCX4JATZ0122
		CARBON RES. 1/6W J 1.2K Ω	RCX6JATZ0122
R 202	·	CARBON RES. 1/4W J 680 Ω or	RCX4JATZ0681
		CARBON RES. 1/6W J 680 Ω	RCX6JATZ0681
R 203		CARBON RES. 1/4W J 1K Ω or	RCX4JATZ0102
D 004		CARBON RES. 1/6W J 1K Ω	RCX6JATZ0102
R 204		CARBON RES. 1/4W J 2.2K Ω or	RCX4JATZ0222
D 005		CARBON RES. 1/6W J 2.2K Ω	RCX6JATZ0222
R 205		CARBON RES. 1/4W J 1K Ω or	RCX4JATZ0102
R 206		CARBON RES. 1/6W J 1K Ω	RCX6JATZ0102
H 200		CARBON RES. 1/4W J 22K Ω or	RCX4JATZ0223
R 207		CARBON RES. 1/6W J 22K Ω	RCX6JATZ0223
N 20/	ŀ	CARBON RES. 1/4W J 22K Ω or	RCX4JATZ0223
R 208		CARBON RES. 1/6W J 22K Ω	RCX6JATZ0223
n 200		CARBON RES. 1/4W J 1.2K Ω or	RCX4JATZ0122
R 209		CARBON RES. 1/6W J 1.2K Ω CARBON RES. 1/4W J 100 Ω or	RCX6JATZ0122
11200		CARBON RES. 1/4W J 100 Ω or CARBON RES. 1/6W J 100 Ω	RCX4JATZ0101
R 210		CARBON RES. 1/4W J 1.5K Ω or	RCX6JATZ0101
1,210	- 1	CARBON RES. 1/6W J 1.5K Ω or CARBON RES. 1/6W J 1.5K Ω	RCX4JATZ0152
R 211	ı	CARBON RES. 1/4W J 8.2K O or	RCX6JATZ0152
11211	- 1		RCX4JATZ0822
		CARBON RES. 1/6W J 8.2K Ω	RCX6JATZ0822

Note:

IC5101 CAN BE EITHER

SAA4700(CBA NO.: BK8036F01A01) or SDA5642(CBA NO.: BS4250F01001).

(Refer to 1-8-39~1-8-40)

Type: IC5101(SAA4700) VPS CBA

(CBA NO.: BK8036F01A01)

Ref. No.	Mark	Description	Part No.
	B,D	VPS CBA Consists of the following:	0VSA07210
		CAPACITORS	
C 5101		CERAMIC CAP.(AX) B J 1000pF/50V or	CDA1JJT0B102
		CERAMIC CAP.(AX) B K 1000pF/50V or	CDA1JKT0B102

Ref. No.	Mark	D	
nei. No.	Mark	Description	Part No.
		CERAMIC CAP. B J 0.001µF/50V or	3B41102T
		CERAMIC CAP. B K 0.001µF/50V	3B42102T
C 5102		CERAMIC CAP.(AX) X K 4700pF/16V or	CDA1CKT0X472
		CERAMIC CAP. X K 0.0047µF/16V	3X4C472T
C 5103		CERAMIC CAP (AX) B J 470pF/50V or	CCA1JJT0B471
		CERAMIC CAP.(AX) B K 470pF/50V or	CCA1JKT0B471
		CERAMIC CAP. B J 470pF/50V or	3B41471T
		CERAMIC CAP. B K 470pF/50V	3B42471T
C 5104		SEMICONDUCTOR CAP. SR K 0.1µF/25V or	CDA1EKS0X104
		SEMICONDUCTOR CAP. SR K 0.1µF/25V	12Y2104S
C 5106		MYLAR CAP. 0.022µF/50V J or	CMA1JJS00223
		MYLAR CAP. 0.022µF/50V J	2254223S
C 5108		MYLAR CAP. 0.0047µF/50V J or	CMA1JJS00472
		MYLAR CAP. 0.0047μF/50V J	2254472S
		CONNECTOR	
CN5101		ANGLE SOCKET CONNECTOR, 9P	1770645
		IC	
IC5101		IC, VPS SAA4700	14D0738
₋		RESISTORS	
R 5101		CARBON RES. 1/4W J 4.7k Ω or	RCX4JATZ0472
· _	Ì	CARBON RES. 1/6W J 4.7k Ω	RCX6JATZ0472
R 5104		CARBON RES. 1/4W J 75k Ω or	RCX4JATZ0753
_		CARBON RES. 1/6W J 75k Ω	RCX6JATZ0753
R 5105	ĺ	CARBON RES. 1/4W J 8.2k Ω or	RCX4JATZ0822
_	ŀ	CARBON RES. 1/6W J 8.2k Ω	RCX6JATZ0822
R 5111		3	RCX4JATZ0102
		CARBON RES. 1/6W J 1k Ω	RCX6JATZ0102

Type: IC5101 (SDA5642) VPS CBA

(CBA NO.: BS4250F01001)

Ref. No.	Mark	Description	Part No.
	B,D	VPS CBA	0VSA07212
		Consists of the following:	
	·	CAPACITORS	
C 5101		CERAMIC CAP (AX) B J 150pF/50V or	CCA1JJT0B151
		CERAMIC CAP.(AX) B K 150pF/50V or	CCA1JKT0B151
		CERAMIC CAP. B J 150pF/50V or	3B41151T
	1	CERAMIC CAP. B K 150pF/50V	3B42151T
C 5102		SEMICONDUCTOR CAP. SR K 0.033µF/25V or	CDA1EKS0X333
		SEMICONDUCTOR CAP. SR K 0.033µF/25V	12Y2333S
C 5103	:	SEMICONDUCTOR CAP. SR K 0.1μF/25V or	CDA1EKS0X104
		SEMICONDUCTOR CAP. SR K 0.1µF/25V	12Y2104S
		CONNECTOR	· · · · · · · · · · · · · · · · · · ·
CN5101		ANGLE SOCKET CONNECTOR, 9P	1770645
		IC	
IC5101		IC, VPS SDA5642	14D0739
		RESISTORS	
R 5101		CARBON RES. 1/4W J 2.2k Ω or	RCX4JATZ0222
		CARBON RES. 1/6W J 2.2k Ω	RCX6JATZ0222
R 5102		CARBON RES. 1/4W J 1M Ω or	RCX4JATZ0105
		CARBON RES. 1/6W J 1M Ω	RCX6JATZ0105
R 5103		CARBON RES. 1/4W J 100k Ω or	RCX4JATZ0104
		CARBON RES. 1/6W J 100k Ω	RCX6JATZ0104
R 5104		CARBON RES. 1/4W J 820k Ω or	RCX4JATZ0824

Ref. No.	Mark	Description	Part No.
		CARBON RES. 1/6W J 820k Ω	RCX6JATZ0824
R 5105		CARBON RES. 1/4W J 5.1k Ω or	RCX4JATZ0512
		CARBON RES. 1/6W J 5.1k Ω	RCX6JATZ0512
R 5107		CARBON RES. 1/4W J 100 Ω or	RCX4JATZ0101
		CARBON RES. 1/6W J 100 Ω	RCX6JATZ0101
R 5110		CARBON RES. 1/4W J 820k Ω or	RCX4JATZ0824
		CARBON RES. 1/6W J 820k Ω	RCX6JATZ0824
D 5101		CARBON RES. 1/4W J 1k Ω or	RCX4JATZ0102
		CARBON RES. 1/6W J 1k Ω	RCX6JATZ0102

DECK MECHANICAL PARTS LIST

PRODUCT SAFETY NOTE: Products marked with a
⚠ have special characteristics important to safety. Before replacing any of these components, read carefully
the product safety notice in this service manual. Don't
degrade the safety of the product through improper servicing.

Comparision Chart of Models and Marks

MODEL	MARK
13A-109/13A-129	А
13A-509/13A-529	В

Ref. No.	Mark	Description	Part No.	Ref. No. Mar
B1	A	CHASSIS ASSEMBLY REEL SENSOR PRISM	0VSA07743	B 51
B1	В	CHASSIS ASSEMBLY MK4	0VSA06769	1 1
B 2	A	CYLINDER ASSEMBLY(PPS) PAL 4HD 2SP	N5108CYL	B 52
B 2	В	CYLINDER ASSEMBLY(ADC) PAL	N5147CYL	B 53
B 4		MOTOR HOLDER CALKING	0VSA07421	B 54
B 5		ASSEMBLY MK5 CASSETTE DRIVE LEVER	0VSA06819	B 74
B 6		ASSEMBLY MK4 PINCH ROLLER ARM ASSEMBLY	0VSA05848	B 76 B 81
D 7		U6		B 83
B7		PINCH ARM ASSEMBLY FUNAI	0VSA05924	B 86 B
B8		PULLEY ASSEMBLY U6 MK2	0VSA05505	B 87 B
B 9	Ά	MOVING GUIDE S ASSEMBLY MK4 PLASTIC	0VSA06934	B 103
B 9	В	MOVING GUIDE S ASSEMBLY MK	0.10.400014	B 104
B 10	A	MOVING GUIDE T ASSEMBLY		B 105
D 10		MK4 PLASTIC	0VSA06935	B 108
B 10	В	MOVING GUIDE T ASSEMBLY MK4	0VSA06815	B 121
B 11		LOADING ARM T ASSEMBLY U6	0VSA05503	B 122
i		MK2		B 123
B 12		LOADING ARM B ASSEMBLY	0VSA04215	B 126
3 13		LOADING ARM M ASSEMBLY or	0VM404693	B 127
		LOADING ARM M ASSEMBLY MK3	0VSA07350	B 128
3 14		PINCH ROLLER SPRING(U5)	0VM403949C	B 129
3 15 ·		LUMIRROR WASHER 3.1X6X0.35	0VM403269	B 130
3 21		LOADING BELT U5 or	0VM403432	B 131
		LOADING BELT U6MK2	0VM403952	B 132
3 22		P.S.W(CUT)	0VM404679	B 133
3 27		BAND BRAKE ASSEMBLY	0VSA04658	B 141
3 28		MAIN BRAKE S ASSEMBLY	0VSA04212	B 142
3 29		MAIN BRAKE T ASSEMBLY	0VSA04213	B 144
3 30		T BRAKE ARM ASSEMBLY	0VSA04641	B 145
3 31		AC HEAD ASSEMBLY MK4 R/P	0VSA06766	
3 32		REEL BASE ASSEMBLY U5	0VSA04759	B 146
3 35		TAPE GUIDE ASSEMBLY	0VM402560	B.147
3 36		TENSION LEVER SPRING	0VSA04550	B 148
		ASSEMBLY	V V O/104000	B 149
3 37		CAPSTAN MOTOR F2QKB92 or	MMDDB5ZSJ002	B 300
		VA CAPSTAN MOTOR(SANKYO) F2QQTB11	MMDZB05SJ001	B 302
3 38		MODE CHANGE LEVER MK3 JOGSHUTTLE MK3	0VM100511K	B 303
3 39		M BRAKE(S) SPRING	0VM402579A	B 304
3 40		M BRAKE(S)LEVER	0VM300753F	B 307
3 41	*	S BREAKE ARM U6/U7	0VM301759	B 308
3 42		M BRAKE T ARM SPRING		B 311
3 43		T BRAKE SPRING(2) MK3 JOG	0VM402582C	B 313
45		M LEVER SPRING(3)	0VM405798	
46			0VM406664	B 316
47		TAPE GUIDE ARM SPRING TAPE GUIDE ARM ADJUST SCREW	0VM402581 0VM403242	B 317
3 49		DT 000 IT 1011	0\/\\\00750\/	B 319
		D: DISIAT VISIA	0VM300756K	D 3 3

	Ref. No.	Mark	Description	Part No.	-
	B 51		CHANGE ARM 16030500.or	0VM402441G	_
1			CHANGE ARM A	0VM405857	
	B 52		CAPSTAN BELT or	0VM402397A	
	A No. 1		CAPSTAN BELT	0VM403950B	
	B 53		P.S.W B	0VM402625	٠
	B 54		GROUND BRUSH ASSEMBLY U5	0VM404524	:
Į	1 1 3		or was a second	0 1111-0-102-1	
-		,	GROUND BRUSH ASSEMBLY U5	0VM404827	
	B 74		LUMINESCENCE PRISM(B) U6/U7	0VM301764H	
	B 76	e i	REC ARM SPRING	0VM402578A	
1	B 81		M LEVER HOLDER U6/U7	0VM301717E	:
1	B 83	Λ.,	RACK SPRING B	0VM403894A	
1	B 86	В	F BRAKE ASSEMBLY U9 4HEAD	0VSA06333	
1	B 87	В	F BRAKE SP(3) F=60	0VM406233	
1	- · · · ·		REC ARM A	0VM301441J	l
1		aret Aret	REC ARM B	0VM301442I	ı
	B 105		REC SPRING	0VM403724	ı
1		tat S	P.S.W F	0VM402629	ı
1	B 121	s' *	WORM	0VM402429E	I
1	B 122		P.S.W C	0VM402429L	l
1	B 122 B 123		P.S.W (WORM THRUST) 02130250	0VM403348	ı
	B 126	tien en en en en en en en en en en en en e	PULLEY U6/U7	0VM301718D	ĺ
- 1	B 127		PULLEY FELT	V/2 1	I
-	B 128		KICK ARM HOLDER U6/U7	0VM404952	I
			PRESS FIT BUSH	0VM301716	l
	B 130	fs F	KICK ARM U6/U7	0VM403652A	ı
1	B 131		KICK ARM SPRING U6/U7	0VM404382F	l
	B 132	٠.	1 1 2 5	0VM404424D	ĺ
1	B 133		CLUTCH ASSEMBLY U6 MK2	0VSA05509	l
4	B 141		ARM IDLER ASSEMBLY U9 4HEAD		ĺ
	B 142		PULLEY SUB ASSEMBLY U6/U7	0VSA05998	ĺ
	B 144		SHAFT LOCK ASSEMBLY	0VSA04642	ı
	B 145		CLUTCH WASHER MK2	OVM404428	ĺ
ľ	B 145		MAIN LEVER ASSEMBLY U9 4HEAD	0VSA06331	
ŀ	B 146		SPRING SUPPORTER	0VM405084A	
H	B.147		STOPPER BOSS	0VM405188	
h	3 148	*	TG CAP MK4	0VM406153A	
H	3 149		TG CAP(2) MK4	0VM406389B	
I	3 300		TG CAP(2) MK4 FL ASSEMBLY MK4	0VDM06962	
1	3 302		DACK MKO	0VM201456B	
ļ	3 303		F DOOR OPENER(2) or	0VM302218A	
			F DOOR OPENER(3)	0VM302351B	
le	3 304		DOOR OPENER MK3	0VM302019B	
•	3 307		F DOOR OPENER R SPRING MK3	0VM405214E	
	3 308		SLIDER SHAFT MK3		
1	3 311	-	DOOR OPENER SPRING MK3	0VM405222D	
	3 313			0VM405302D	
٦			CASSETTE DRIVE GEAR R SPRING MK4	0VM406253	
E	3 316		DOOR LOCK RELEASE ARM SPRING	0VM402508C	
E	3 317		DOOR LOCK RELEASE ARM(3) MK3	0VM405034D	
Е	319		CASSETTE SPRING STOPPER or	0VM402507I	

<u> </u>			
Ref. No.	Mark	Description	Part No.
0.000	l	CASSETTE SPRING STOPPER	0VM4025071
B 326	Α .	DRIVE ARM SPRING JOG SHUTTLE MK3	0VM405172C
B 326	В	DRIVE ARM SP JOG SHUTTLE	0VM405172B
D 020		MK3	0 1111-100 11 2.0
B 327		BUSH CLUTCH(2) JOG MK3	0VM405368
B 328		REEL DRIVE ARM JOG SHUTTLE	0VM301978E
		MK3	01/11/12/12
B 329		HOLDER KICK ARM JOG SHUTTLE MK3 or	0VM301979D
		HOLDER KICK ARM(2) JOG	0VM302219B
		SHUTTLE MK3	041410022100
B 330	1	DRIVE ARM SHAFT JOG	0VM405170
		SHUTTLE MK3	
B 331		DRIVE ARM ROLLER JOG SHUTTLE MK3	0VM405171
B 332		HOLDER ARM SPRING JOG	0VM405174C
1 5 5 5 2		SHUTTLE MK3	04141001740
B 333	В	GUIDE F BRAKE MK3	0VM301982E
B 334		P.S.W 1.7X3.2X0.5T	0VM403678
B 338		P.S.W CUT MK3(3.1X6X0.25)	0VM405809
B 339		REEL BASE ASSEMBLY U9 4HEAD	0VSA06332
B 344		CASSETTE GUIDE R MK4	0VM000074G
B 345		CASSETTE GUIDE L MK4	0VM100544E
B 346	i	FRONT GUIDE MK4	0VM201618A
B 347		DECKANGLE F MK4	0VM302263D
B 348		DECKANGLE B MK4	0VM302264D
B 349	ļ	MIRROR HOLDER L MK4	0VM302265D
B 350		SLIDER GEAR MK4	0VM406109A
B 351		MIRROR(3)	0VM406638
B 352		CASSETTE DRIVE GEAR MK4	0VM302260E
B 353 B 354		CASSETTE PLATE MK4	0VM302261D
B 354 B 355	}.	SLIDER R MK4 SLIDER L MK4	0VM201616B 0VM201617D
B 356		LOCK LEVER MK4	0VM201617D 0VM302262F
B 357		LOCK LEVER SPRING MK4	0VM3022021
B 358		CAM	0VM100543A
B 359	:	CLEAN LEVER MK4	0VM302259H
B 360		CLEAN ROLLER MK4	0VM406123
B 361	1.	CLEAN BEARING MK4	0VM406124
B 362		MIRROR HOLDER R MK4	0VM302365B
B 363		GEAR SUPPORTER MK4	0VM406240
B 366		PRISM	0VM406950
B 367		PRISM COVER	0VM406951
B 369		CLUTCH SHAFT CAP	0VM406892
İ			
L1011		SCREW, C-TIGHT M3X9 PAN	GPMC3090
L1051		HEAD+ SCREW, S-TIGHT M2.6X6 PAN	CDMennen
F1001		HEAD+ or	GPMS9060
1		SCREW(CAPSTAN) M2.6X6 S-	0VM405901
		TIGHT `	
L1053		SCREW, S-TIGHT M2.6X6 PAN	GPMS9060
l		HEAD+ or	0)/14405004
		SCREW(CAPSTAN) M2.6X6 S-	0VM405901
L1061		SCREW, S-TIGHT M2.6X4 PAN	GPMS9040
		HEAD+	
L1062		SCREW, S-TIGHT M2.6X8 PAN	GPMS9080
14004		HEAD+	001100000
L1081		SCREW, S-TIGHT 3X6 BIND HEAD+	GBMS3060
L1091	ŀ	SCREW, S-TIGHT M3X6 CUP	GCMS3060
F1091		HEAD+	GOMOSOOO
L1101		SCREW, P-TIGHT 3X8 BIND +	GBMP3080
L1103		SCREW, P-TIGHT 3X8 BIND +	GBMP3080
L1111		SCREW, P-TIGHT 3X8 WASHER +	GCMP3080
L1112		SCREW, P-TIGHT 3X8 WASHER +	GCMP3080
L1113		SCREW, P-TIGHT 3X8 WASHER +	GCMP3080
L1114	В	SCREW, P-TIGHT 3X8 WASHER +	GCMP3080

Ref. No.	Mark	Description	Part No.
L1115		SCREW, P-TIGHT 3X8 WASHER +	GCMP3080
L1151		SCREW, SEMS M3X4 PAN HEAD	CPM33040
		+	
L1191		SCREW, P-TIGHT M2.6X12	GCMP9120
L1221	1	SCREW, SPECIAL	0VM403688
L1231		SPACER SCREW ASSEMBLY	0VM403752
L1241		P-TITE SCREW M2X6	GBMP2060
L1251	В	CS RING(D=5)	WTM5063
L1291		SCREW, P-TIGHT M2.6X6 PAN HEAD+	GPMP9060
L1311		SCREW, B-TIGHT M3X18 PAN HEAD+	GPMB3180
L1321		SCREW, S-TIGHT M3X5 BIND HEAD+	GBMS3050
L1331		SCREW, P-TIGHT M2.6X12	GCMP9120
L1341		SCREW, P-TIGHT M2.6X8 BIND +	GBMP9080
L1342	ĺ	SCREW, P-TIGHT M2.6X8 BIND +	GBMP9080
L1351		SCREW, SEMS M2.6X6	0VM406255A
2L051	В	SCREW, S-TIGHT M3X5 BIND HEAD+	GBMS3050

DECK ELECTRICAL PARTS LIST

PRODUCT SAFETY NOTE: Products marked with a
⚠ have special characteristics important to safety. Before replacing any of these components, read carefully
the product safety notice in this service manual. Don't
degrade the safety of the product through improper servicing.

NOTE: Parts that not assigned part numbers (-----) are not available.

Tolerance of Capacitors and Resistors are noted with the following symbols.

C±0.25%	D±0.5%	F±1%
G±2%	J±5%	K±10%
M±20%	N±30%	Z+80/-20%

Comparision Chart of Models and Marks

MODEL	MARK
13A-109/13A-202	Α
13A-509/13A-529	В

JNT CBA

Ref. No.	Mark	Description	Part No.
		JNT CBA (Joint+Mode SW+ACE Head+Motor)	0VSA07380
-		Consists of the following:	
		Joint CBA (JNT-A)	
		Mode SW CBA (JNT-B)	
	Ì	ACE Head CBA (JNT-C)	
	}	Motor CBA (JNT-D)	

Joint CBA (JNT-A)

Ref. No.	Mark	Description	Part No.
		Joint CBA (JNT-A)	
	}	Consists of the following:	
		CONNECTORS	
CN2691	1	ANGLE SOCKET CONNECTOR, 20P	1770615
CN2692		FFC CONNECTOR BASE, TOP 9P or	JC2SJ09ERH0C
)	FFC CONNECTOR BASE, TOP 9P or	1700915
		FFC CONNECTOR BASE, TOP 9P or	1700449
	1	FFC CONNECTOR BASE, TOP 9P or	1700515
	1	FFC CONNECTOR BASE, TOP 9P	1700986
		RESISTORS	
R 2691		CARBON RES. 1/4W J 27K Ω or	RCX4JATZ0273
		CARBON RES. 1/6W J 27K Ω	RCX6JATZ0273
R 2692		CARBON RES. 1/4W J 27K Ω or	RCX4JATZ0273
		CARBON RES. 1/6W J 27K Ω	RCX6JATZ0273
		MISCELLANEOUS	
CL2691		JUMPER WIRE, 5P AWG26#20080/P2.0/50	WX1K7010-003
CL2692		JUMPER WIRE, 6P AWG26#20080/P2.0/90	WX1N5007-001
CL2693		JUMPER WIRE, 3P AWG26#2651/P2.0/80	WX1H5100-001
		FFC CABLE, 9P FFC/P1.25/120	WX3909QZ4413

Mode SW CBA (JNT-B)

Ref. No.	Mark	Description	Part No.
		MODE SW CBA (JNT-B)	
		Consists of the following:	
SW2691		MODE SWITCH HMW0420-810010	SSR0104HD002

ACE Head CBA (JNT-B)

Ref. No.	Mark	Description	Part No.
		ACE HEAD CBA (MCV-C)	
		Consists of the following:	
CN2693		FLAT CABLE CONNECTOR 6P or	JEHBJ06JE001
		FLAT CABLE CONNECTOR 6P	JC88J06NB001

Motor CBA (JNT-D)

Ref. No.	Mark	Description	Part No.
		MOTOR CBA (JNT-D)	
	l	Consists of the following:	
В3		LOADING MOTOR PREPARATION MK5	0VSA07425
		MOTOR PULLEY U5	0VM403205A
		LOADING MOTOR RF-370CA-15370 or	MMDZB12MF00
		LOADING MOTOR(M) MXN-13FB06A2	MMDZB06MS00

PRV CBA

Ref. No.	Mark	Description	Part No.
	Α	PRV CBA (Head Amp + FE Head)	0VSA07381
	В	PRV CBA (Head Amp + FE Head)	0VSA07384
		Consists of the following:	
		Head Amp CBA (PRV-A)	
		FE Head CBA (PRV-B)	
		FE Head CBA (PRV-C)	

Head Amp CBA (PRV-A)

Ref. No.	Mark	Description	Part No.
		Head Amp CBA (PRV-A)	
		Consists of the following:	
		CAPACITORS	
C 3801	Α	CERAMIC CAP.(AX) F Z 0.1µF/50V	CCA1JZT0F104
C 3801	В	CERAMIC CAP (AX) B J 1000pF/50V or	CDA1JJT0B102
		CERAMIC CAP.(AX) B K 1000pF/50V or	CDA1JKT0B102
		CERAMIC CAP. B J 0.001µF/50V or	3B41102T
		GERAMIC CAP. B K 0.001 µF/50V	3B42102T
C 3802	Α	ELECTROLYTIC CAP. 100µF/6.3V M H7 or	CE0KMZPSL101
	}	ELECTROLYTIC CAP. 100µF/6.3V M H7	526R107
C 3802	В	ELECTROLYTIC CAP. 0.22μF/50V M H7 or	CE1JMZPSLR22
	1	ELECTROLYTIC CAP. 0.22µF/50V M H7	526W224
C 3803	A	ELECTROLYTIC CAP. 0.22µF/50V M H7 or	CE1JMZPSLR22
		ELECTROLYTIC CAP. 0.22µF/50V M H7	526W224
C 3803	В	CERAMIC CAP (AX) Y M 0.01 µF/16V or	CDA1CMT0Y103
		CERAMIC CAP. F Z 0.01µF/16V	1220842T
C 3804	1	CERAMIC CAP.(AX) Y M 0.01 µF/16V or	CDA1CMT0Y103
		CERAMIC CAP. F Z 0.01μF/16V	1220842T
C 3805	1	CERAMIC CAP.(AX) Y M 0.01 µF/16V or	CDA1CMT0Y103
		CERAMIC CAP. F Z 0.01µF/16V	1220842T
C 3806	1	CERAMIC CAP.(AX) Y M 0.01 µF/16V or	CDA1CMT0Y103
		CERAMIC CAP. F Z 0.01µF/16V	1220842T
C 3807		CERAMIC CAP.(AX) F Z 0.1µF/50V	CCA1JZT0F104
C 3808	В	CERAMIC CAP.(AX) F Z 0.1µF/50V	CCA1JZT0F104
C 3809		CERAMIC CAP.(AX) F Z 0.1µF/50V	CCA1JZT0F104
C 3810	В	CERAMIC CAP.(AX) F Z 0.1µF/50V	CCA1JZT0F104
C 3811	В	CERAMIC CAP.(AX) F Z 0.1µF/50V	CCA1JZT0F104
C 3812	В	ELECTROLYTIC CAP. 220µF/6.3V M H7 or	CE0KMZPSL221
		ELECTROLYTIC CAP. 220µF/6.3V M H7	526R227

Ref. No.	Mark	Description	Part No.
C 3813	A	CERAMIC CAP.(AX) SL J 15pF/50V or	GCA1JJTSL150
0 3013	 ^	CERAMIC CAP. SLJ 15pF/50V	3S41150T
0 0040	_		
C 3813	В	CERAMIC CAP.(AX) F Z 0.047μF/50V	CCA1JZT0F473
C 3814	B CERAMIC CAP. (AX) F Z 0.022 μF/25V or		CDA1EZT0F223
	١. ا	CERAMIC CAP. F Z 0.022µF/25V	1220843T
C 3821	Α .	CERAMIC CAP (AX) B J 100pF/50V or	CCA1JJT0B101
		CERAMIC CAP.(AX) B J 100pF/50V or	CCA1JKT0B101
	ŀ	CERAMIC CAP. B J 100pF/50V or	3B41101T
		CERAMIC CAP. B J 100pF/50V	3B42101T
C 3822	Α .	CERAMIC CAP.(AX) SL J 47pF/50V or	CCA1JJTSL470
		CERAMIC CAP.SL J 47pF/50V	3S41470T
		CONNECTORS	
CN3801	Α	ANGLE SOCKET CONNECTOR, 15P	1770612
CN3801	В	ANGLE SOCKET CONNECTOR, 17P	1770612
CN3802	Α	FFC CONNECTOR BASE, SIDE 5P	JC96J05ERC0C
CN3802	В	FFC CONNECTOR BASE, SIDE 7P or	JC96J07ERC0C
	_	FFC CONNECTOR BASE, SIDE 7P	1700473
	L	TO GOTTLE TO A BACK, SIDE TO	
IC 3801	A	IC, VIDEO H-AMP LA7376	QSBLA0SSY035
IC3801	В	IC LA7372	QSBLA0SSY012
100001		COILS	QODDNOOTTE
L 3801		INDUCTOR 22µH-K-26T or	LLAXKDTKA220
2 300 1		INDUCTOR 22µH-K-26T	LLAXKATTU220
	L	RESISTORS	LLANIA I UZZU
R 3801	[The state of the s	RCX4JATZ0223
n 3004		CARBON RES. 1/6W J 22K Ω	RCX6JATZ0223
R 3802			RCX4JATZ0822
H 3802	Α	CARBON RES. 1/4W J 8.2K Ω or	
D 0000	_	CARBON RES. 1/6W J 8.2K Ω	RCX6JATZ0822
R 3802	В	CARBON RES∷1/4W-J 22K Ω or	RCX4JATZ0223
		CARBON RES. 1/6W J 22K Ω	RCX6JATZ0223
R 3803	Α	CARBON RES. 1/4W J 1K Ω or	RCX4JATZ0102
		CARBON RES. 1/6W J 1K Ω	RCX6JATZ0102
R 3803	В	CARBON RES. 1/4W J 47K Ω or	RCX4JATZ0473
		CARBON RES. 1/6W J 47K Ω	RCX6JATZ0473
R 3804	Α	CARBON RES. 1/4W J 5.6K Ω or	RCX4JATZ0562
1		CARBON RES. 1/6W J 5.6K Ω	RCX6JATZ0562
R 3804	В	CARBON RES. 1/4W J 1K Ω or	RCX4JATZ0102
		CARBON RES. 1/6W J 1K Ω	RCX6JATZ0102
R 3808	Α	CARBON RES. 1/4W J 33K Ω or	RCX4JATZ0333
	1	CARBON RES. 1/6W J 33K Ω	RCX6JATZ0333
R 3805	В	CARBON RES. 1/4W J 1K Ω or	RCX4JATZ0102
		CARBON RES. 1/6W J 1K Ω	RCX6JATZ0102
R 3806	В	CARBON RES. 1/4W J 6.8K Ω or	RCX4JATZ0682
1110000	-	CARBON RES. 1/6W J 6.8K Ω	RCX6JATZ0682
R 3807	В	CARBON RES. 1/4W J 6.8K Ω or	RCX4JATZ0682
11 3007		CARBON RES. 1/6W J 6.8K Ω	RCX6JATZ0682
D 2000	B	CARBON RES. 1/4W J 33K Ω or	RCX4JATZ0333
R 3808	В		
D 0000		CARBON RES. 1/6W J 33K Ω	RCX6JATZ0333
R 3809	В	CARBON RES. 1/4W J 33K Ω or	RCX4JATZ0333
		CARBON RES. 1/6W J 33K Ω	RCX6JATZ0333
	· · · · · · ·	MISCELLANEOUS	0.4.10007.17
2B 2	Α	SHIELD, TOP	0VM302519
2B 2	В	SHIELD, TOP(U13 4H)	0VM302523
2B 3	Α	SHIELD, BOTTOM	0VM302520
2B 3	В	SHIELD, BOTTOM(U13 4H)	0VM302532
CL3801			WX1K7010-012
AWG26#20080/P2.0/35			
CL3802	ŀ	JUMPER WIRE, 3P AWG26#2651/P2.0/80	
JW3801	В	WIRE 030/BLA/AWG28#1007	WX3001A83303

FE Head CBA (PRV-B)

Ref. No.	Mark	Description	Part No.
		FE Head CBA (PRV-B)	
		Consists of the following:	F 1.35. 2.35
		SPACER;FE	0VM405209B
B 73		FE HEAD MH-131SF5/KM-1311550 or	DHVEC01LA004
		FE HEAD VTR-1X2ERS11-122	DHVEC01TE003

FE Head CBA (PRV-C)

Ref. No.	Mark	Description	Part No.
		FE Head CBA (PRV-C)	
		Consists of the following:	
B 73		FE HEAD HVFHF0049A	DHVEC01AL00
		SPACER;FE	 0VM405209B

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